DAIKIN

altherma

Heating

2014

Pricelist

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NOTES

The pricelist is valid from 1. April 2014. All prior pricelists are not valid anymore. All prices are list prices in Euro and excl. VAT. The Daikin Commercial Terms and Conditions apply (see last page or http://www.daikin-ce.com). We reserve the right for printing errors and model changes.

You and your customer have decided to switch to an energy-efficient heating system that produces low CO_2 emissions. Daikin Altherma is a total heating and domestic hot water system based on air source heat pump technology. One that represents a flexible and cost-effective alternative to a fossil fuel boiler. It also has an option for cooling.*

The inherent energy-efficiency characteristics of Daikin Altherma make it an ideal solution for reduced energy consumption and low CO_2 emissions. Its high- and low-temperature heating systems provide optimal comfort. Highly energy-efficient heat pumps with advanced compressor technology transform unused and inexhaustible heat from the surrounding air into usable heat, either as part of the overall climate-control system or to heat domestic hot water. Moreover, the system is easy to install.

*The Daikin Altherma cooling option is available for low-temperature heating systems (under floor heating system, heat pump convectors).

→ Daikin Altherma low temperature split

COP
up to 4,02
A2/W35
(according to
EN14511)

Best season efficiencies,

providing the highest savings on running costs and CO_2 emissions.

→ High heat pump efficiencies at all outdoor and water temperatures guarantee low running costs and low CO_2 emissions.

→ High heating capacities enable best efficiencies down to low outside temperature. The electrical back-up heater assistance is no longer required or only very limited.

→ Daikin inverter compressors with high modulation range provide:

- Higher compressor efficiency in partial load operation.
- Delivered capacities exactly matching the actual heating demand of the building.
- Obtaining the capacities needed with minimum energy consumption.
- Less on/off operation, increasing the operation life cycle of the compressor.

→ Limiting electrical inputs of auxiliary components contribute to the high seasonal efficiencies:

- Factory-mounted high efficiency circulating pump already qualifying for future regulations (ErP2015) with an A-energy label (EEI ≤ 0.23)
- No standby losses of inverter drive PCB, lowering electricity consumption during standby mode
- No bottom plate heater needed on 4-8kW class
- Low-capacity bottom plate heater on 11-16kW class (ERLQ-C series), only operating during defrost cycles.

Perfect fit

for new builds,
as well as for low-energy houses

→ NEW: Optimised unit for low heat loads available

→ The new-build house market in Europe is moving towards smaller heat loads, due to:

- Growing importance of low-energy houses
- Strengthened legislation on energy consumption in new residential constructions (e.g. EPBD regulations)
- Decreasing size of new-build houses
- EU member states planning to reach their 20-20-20 targets

The new Daikin Altherma low temperature is designed to meet the requirements of newly built and low-energy houses characterised by low heat loads.

With capacities from 4 to 16kW Daikin Altherma covers 90% of all new built applications.

→ All types of heat emitters are possible:

- Under-floor heating: 25°C → 35°C
- Heat pump convector: 35°C → 45°C
- Low temperature radiators: 40°C → 50°C

→ Daikin Altherma is suitable for all climates, even withstanding severe winter conditions.

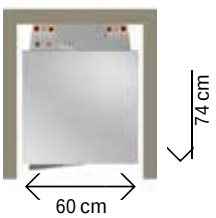
→ Daikin Altherma low temperature split

Integrated indoor unit:

best solution for domestic hot water for installer & customer

→ Easiest and fastest installation, domestic hot water tank included
- Fast installation: the stainless steel domestic hot water tank is included in the unit, with all connections between heat pump module and tank factory made.
- All hydraulic components are included.
- Lower installation footprint.

→ Minimised installation space, both in terms of footprint and height:
- Small footprint with a width of only 60cm and a depth of 74cm
- The required installation height is less than 2m
- Sleek design and modern look



→ Best solution for domestic hot water heating with high efficiency and high comfort
- 50% less heat loss compared to a standard insulated tank.
- High hot water volumes: 300l at 40°C, enough for 6 showers without any electrical assistance.

→ Wall-mounted indoor unit including all hydraulic components.

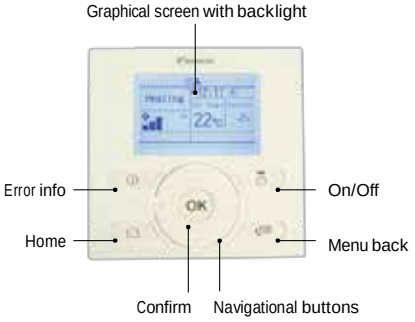
User interface:

high functionalities, easy to use

→ Quick and easy commissioning:
- Quick configuration wizard to guide installer through commissioning process
- Menu-based navigation to fine-tune the basic parameters
- Parameters are up- and downloadable from/to PC
- Actuator test mode to activate all wired components one by one
- Automatic screed-drying function

→ Room temperature control functionality:
The user interface itself is equipped with a temperature sensor and can be directly used as a rom thermostat, resulting in more stable room temperatures, increased efficiency and operation life cycle.

→ User-friendly with intuitive control:
- The large graphical interface allows an intuitive and self-explanatory menu
- Provides additional information such as the energy consumption and heat production of the system



→ Daikin Altherma low temperature split

Technical specifications

OUTDOOR UNIT				ERLQ004CV3	ERLQ006CV3	ERLQ008CV3
Heating capacity	Min.		kW	1,80 [1]	1,80[1]	1,80[1]
	Nom.		kW	4,40[1] / 3,27[2]	6,00[1] / 4,58[2]	7,40[1] / 5,80[2]
	Max.		kW	5,12[1]	8,35[1]	10,02[1]
Cooling capacity	Nom.		kW	5,00[3] / 4,17[4]	6,76[3] / 4,84[4]	6,86[3] / 5,36[4]
COP nom.				5,04[1] / 4,02[2]	4,74[1] / 3,68[2]	4,45[1] / 3,53[2]
EER nom.				3,37[3] / 2,32[4]	3,45[3] / 2,34[4]	3,42[3] / 2,29[4]
Dimensions	Unit	H x W x D	mm	735x832x307	735x832x307	735x832x307
Operation range	Heating	Min.~Max.	°C	-25~25	-25~25	-25~25
	Cooling	Min.~Max.	°C	10~43	10~43	10~43
	Domestic hot water	Min.~Max.	°C	-25~35	-25~35	-25~35
Sound pressure level*	Heating	Nom.	dBA	48	48	49
	Cooling	Nom.	dBA	48	49	50
Power supply (phase/voltage)				1~/230V	1~/230V	1~/230V

HEATING ONLY

INDOOR UNIT - WALL MOUNTED				EHBH04C3V EHBH08C3V	EHBH08C9W
Dimensions	Unit	H x W x D	mm	890x480x344	890x480x344
Operation range	Heating	Water side Min.~Max.	°C	15~55	15~55
	Domestic hot water	Water side Min.~Max.	°C	25~80	25~80
Sound pressure level*	Nom.		dBA	26	26
Power supply (phase/voltage)				1~/230V	1~/230V / 3~/400V

HEATING & COOLING

INDOOR UNIT - WALL MOUNTED				EHBX04C3V EHBX08C3V	EHBX08C9W
Dimensions	Unit	H x W x D	mm	890x480x344	890x480x344
Operation range	Heating	Water side Min.~Max.	°C	15~55	15~55
	Cooling	Water side Min.~Max.	°C	5~22	5~22
	Domestic hot water	Water side Min.~Max.	°C	25~80	25~80
Sound pressure level*	Nom.		dBA	26	26
Power supply (phase/voltage)				1~/230V	1~/230V / 3~/400V

HEATING ONLY

INDOOR UNIT - FLOORSTANDING				EHVH04S18C3V EHVH08S18C3V	EHVH08S26C9W
Dimensions	Unit	H x W x D	mm	1.732x600x728	1.732x600x728
Operation range	Heating	Water side Min.~Max.	°C	15~55	15~55
	Domestic hot water	Water side Min.~Max.	°C	25~80	25~80
Sound pressure level*	Nom.		dBA	28	28
Power supply (phase/voltage)				1~/230V	1~/230V / 3~/400V

HEATING & COOLING

INDOOR UNIT - FLOORSTANDING				EHVX04S18C3V EHVX08S18C3V	EHVX08S26C9W
Dimensions	Unit	H x W x D	mm	1.732x600x728	1.732x600x728
Operation range	Heating	Water side Min.~Max.	°C	15~55	15~55
	Cooling	Water side Min.~Max.	°C	5~22	5~22
	Domestic hot water	Water side Min.~Max.	°C	25~80	25~80
Sound pressure level*	Nom.		dBA	28	28
Power supply (phase/voltage)				1~/230V	1~/230V / 3~/400V

→ Daikin Altherma low temperature split

ERLQ11CV3 / ERLQ11CW1	ERLQ14CV3 / ERLQ14CW1	ERLQ16CV3 / ERLQ16CW1
–	–	–
11,20[1] / 8,56[2]	14,50[1] / 10,30[2]	16,00[1] / 11,10[2]
11,38[1]	14,55[1]	16,10[1]
15,05[3] / 11,72[4]	16,06[3] / 12,55[4]	16,76[3] / 13,12[4]
4,60[1] / 3,60[2]	4,30[1] / 3,45[2]	4,25[1] / 3,35[2]
3,32[3] / 2,72[4]	2,96[3] / 2,47[4]	2,72[3] / 2,29[4]
1.345x900x320	1.345x900x320	1.345x900x320
-25~35	-25~35	-25~35
10~46	10~46	10~46
-20~35	-20~35	-20~35
51	51	52
50	52	54
1~/230V / 3~/400V	1~/230V / 3~/400V	1~/230V / 3~/400V

EHBH16C3V	EHBH16C9W
890x480x344	890x480x344
25~55	25~55
25~80	25~80
33	33
1~/230V	3~/400V

EHBX16C3V	EHBX16C9W
890x480x344	890x480x344
15~55	15~55
5~22	5~22
25~80	25~80
33	33
1~/230V	3~/400V

EHVH16S18BC3V	EHVH16S26C9W
1.732x600x728	1.732x600x728
15~55	15~55
25~80	25~80
33	33
1~/230V	3~/400V

EHVX16S18C3V	EHVX16S26C9W
1.732x600x728	1.732x600x728
15~55	15~55
5~22	5~22
25~80	25~80
33	33
1~/230V	3~/400V

*Measured in 1m distance from the unit.

(1) EW 30°C; LW 35°C; ambient conditions: 7°CDB/6°CWB
(2) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB
(3) EW 23°C; LW18°C; ambient conditions: 35°C
(4) EW 12°C; LW 7°C; ambient conditions 35°C

→ Daikin Altherma low temperature split

Pricelist

Daikin Altherma is a low temperature, inverter driven air to water split heat pump system. The outdoor unit is connected to the indoor unit (wallmounted or floorstanding) with refrigerant piping. The heat pump system can be used for space heating, space cooling and domestic hot water production.

Daikin Altherma Low Temperature Outdoor Unit Inverter Split Heat pump outdoor unit with nominal capacities from 4 to 8 kW. Nominal capacity is measured at A7/W35**.			**PRICE HUF**
Daikin Altherma 4 kW outdoor unit*	**ERLQ004CV3**	Power Supply 1~ 230V	**447.300,–**
Daikin Altherma 6 kW outdoor unit	**ERLQ006CV3**	Power Supply 1~ 230V	**469.500,–**
Daikin Altherma 8 kW outdoor unit	**ERLQ008CV3**	Power Supply 1~ 230V	**641.400,–**

Daikin Altherma wallmounted indoor unit for heating only applications. All basic necessary hydraulic components included.			**PRICE HUF**
Wallmounted indoor unit 4kW with 3kW BUH*	**EHBH04C3V**	Electrical Backup Heater 1~ 230V	**726.100,–**
Wallmounted indoor unit 6-8 kW with 3kW BUH	**EHBH08C3V**	Electrical Backup Heater 1~ 230V	**762.500,–**
Wallmounted indoor unit 6-8kW with 3-9 kW BUH	**EHBH08C9W**	Electrical Backup Heater 1~ 230V or 3~ 400V	**799.500,–**

Daikin Altherma wallmounted indoor unit for heating & cooling applications. All basic necessary hydraulic components included.			**PRICE HUF**
Wallmounted indoor unit 4kW with 3kW BUH*	**EHBX04C3V**	Electrical Backup Heater 1~ 230V	**789.500,–**
Wallmounted indoor unit 6-8 kW with 3kW BUH	**EHBX08C3V**	Electrical Backup Heater 1~ 230V	**829.000,–**
Wallmounted indoor unit 6-8kW with 3-9 kW BUH	**EHBX08C9W**	Electrical Backup Heater 1~ 230V or 3~ 400V	**865.700,–**

Daikin Altherma Indoor unit (floorstanding with domestic hot water tank) for heating only applications. All basic necessary hydraulic components included.			**PRICE HUF**
Floorstanding indoor unit 4kW with 3kW BUH & 180L Tank*	**EHVH04S18C3V**	Electrical Backup Heater 1~ 230V	**1.041.900,–**
Floorstanding indoor unit 6-8 kW with 3kW BUH & 180L Tank	**EHVH08S18C3V**	Electrical Backup Heater 1~ 230V	**1.078.300,–**
Floorstanding indoor unit 6-8kW with 3-9 kW BUH & 260L Tank	**EHVH08S26C9W**	Electrical Backup Heater 1~ 230V or 3~ 400V	**1.156.100,–**

Daikin Altherma Indoor unit (floorstanding with domestic hot water tank) for heating & cooling applications. All basic necessary hydraulic components included.			**PRICE HUF**
Floorstanding indoor unit 4kW with 3kW BUH & 180L Tank*	**EHVX04S18C3V**	Electrical Backup Heater 1~ 230V	**1.105.300,–**
Floorstanding indoor unit 6-8 kW with 3kW BUH & 180L Tank	**EHVX08S18C3V**	Electrical Backup Heater 1~ 230V	**1.144.800,–**
Floorstanding indoor unit 6-8kW with 3-9 kW BUH & 260L Tank	**EHVX08S26C9W**	Electrical Backup Heater 1~ 230V or 3~ 400V	**1.222.300,–**

Daikin Altherma Low Temperature Outdoor Unit Inverter Split Heat pump outdoor unit with nominal capacities from 11 to 16 kW. Nominal capacity is measured at A7/W35**			**PRICE HUF**
Daikin Altherma 11 kW outdoor unit	**ERLQ011CV3**	Power Supply 1~ 230V	**850.300,–**
Daikin Altherma 14 kW outdoor unit	**ERLQ014CV3**	Power Supply 1~ 230V	**1.016.500,–**
Daikin Altherma 16 kW outdoor unit	**ERLQ016CV3**	Power Supply 1~ 230V	**1.154.500,–**

Daikin Altherma Low Temperature Outdoor Unit Inverter Split Heat pump outdoor unit with nominal capacities from 11 to 16 kW. Nominal capacity is measured at A7/W35**.			**PRICE HUF**
Daikin Altherma 11 kW outdoor unit	**ERLQ011CW1**	Power Supply 3~ 400V	**943.800,–**
Daikin Altherma 14 kW outdoor unit	**ERLQ014CW1**	Power Supply 3~ 400V	**1.115.300,–**
Daikin Altherma 16 kW outdoor unit	**ERLQ016CW1**	Power Supply 3~ 400V	**1.271.500,–**

Daikin Altherma wallmounted indoor unit for heating only applications. All basic necessary hydraulic components included.			**PRICE HUF**
Wallmounted indoor unit 11-16 kW with 3 kW BUH	**EHBH16C3V**	Electrical Backup Heater 1~ 230V	**873.800,–**
Wallmounted indoor unit 11-16 kW with 3-9 kW BUH	**EHBH16C9W**	Electrical Backup Heater 1~ 230V or 3~ 400V	**916.500,–**

Daikin Altherma wallmounted indoor unit for heating & cooling applications. All basic necessary hydraulic components included.			**PRICE HUF**
Wallmounted indoor unit 11-16 kW with 3 kW BUH	**EHBX16C3V**	Electrical Backup Heater 1~ 230V	**950.000,–**
Wallmounted indoor unit 11-16 kW with 3-9 kW BUH	**EHBX16C9W**	Electrical Backup Heater 1~ 230V or 3~ 400V	**992.400,–**

Daikin Altherma Indoor unit (floorstanding with domestic hot water tank) for heating only applications. All basic necessary hydraulic components included.			**PRICE HUF**
Floorstanding indoor unit 11-16 kW with 3kW BUH & 180L Tank	**EHVH16S18C3V**	Electrical Backup Heater 1~ 230V	**1.189.700,–**
Floorstanding indoor unit 11-16 kW with 3-9 kW BUH & 260 L Tank	**EHVH16S26C9W**	Electrical Backup Heater 1~ 230V or 3~ 400V	**1.273.100,–**

Daikin Altherma Indoor unit (floorstanding with domestic hot water tank) for heating & cooling applications. All basic necessary hydraulic components included.			**PRICE HUF**
Floorstanding indoor unit 11-16 kW with 3kW BUH & 180L Tank	**EHVX16S18C3V**	Electrical Backup Heater 1~ 230V	**1.265.900,–**
Floorstanding indoor unit 11-16 kW with 3-9 kW BUH & 260 L Tank	**EHVX16S26C9W**	Electrical Backup Heater 1~ 230V or 3~ 400V	**1.349.000,–**

* The 4kW outdoor ERLQ004CV3 unit can only be combined with a 4kW indoor unit (either wallmounted or floorstanding)!
** Ta DB/WB 7°C / 6°C - LWC 35°C (DT = 5K)

→ Daikin Altherma low temperature split

Additional controllers			Applicable for:		PRICE HUF
			4-8kW	11-16kW	
Controller	**EKRUCL1**	User interface with languages EN, CZ, TU, PT, SW, NO	●	●	**38.300,–**
Controller	**EKRUCL2**	User interface with languages EN, FR, DE, IT, NL, ES	●	●	**38.300,–**

Options & Accessories			Applicable for:		PRICE HUF
			4-8kW	11-16kW	
Drainpan for outdoor unit (exl. drainpan heater)	**EKDP008C**	Collect water from defrost cycle and drain via central hole to remote location. If installed additional heater tape EKDPH00bC is mandatory!	●		**47.700,–**
Heater tape for outdoor unit drainpan	**EKDPH008C**	Heater tape to install in central hole of drain pan to prevent ice blockage	●		**71.800,–**
Remote temperature sensor for outdoor unit	**EKRSC1**	Ambient temperature measurement remotely from outdoor unit	●		**24.800,–**
U-beams for outdoor unit	**EKFT008CA**	Beams to mount outdoor unit on (height 25cm)	●		**33.200,–**
Remote indoor sensor	**KRCS01-1**	Temperature measurement remotely from user interface	●	●	**23.500,–**
PC cable	**EKPCCAB2**	Cable to upload field settings from PC to unit	●	●	**71.800,–**
Drain pan kit for indoor unit	**EKHBDPC2**	Collect and drain condensate during cooling operation	●	●	**43.000,–**
Wired room thermostat	**EKRTWA**	Wired Digital Room Thermostat	●	●	**38.000,–**
Wireless room thermostat	**EKRTR**	Wireless Digital Room Thermostat	●	●	**71.700,–**
Thermostat external sensor	**EKRTETS**	Temperature measurement remotely from wireless room thermostat (e.g. floor temperature)	●	●	**4.700,–**
Digital I/O PCB	**EKRP1HBA**	Remote alarm / operation status	●	●	**41.100,–**
Demand PCB	**EKRP1AHT**	Power consumption limitation with 4 digital inputs on hydrobox	●		**41.100,–**
Demand PCB	**KRP58M51**	Power consumption limitation via outdoor unit		●	**56.900,–**
Solar Kit	**EKSOLHW**	Heat exchanger to connect Daikin solar system to EKHWS and EKHWE DHW tank	●	●	**230.500,–**
Electricity meter	**K.ELECMETV**	Single phase electricity meter	●	●	**49.300,–**
Electricity meter	**K.ELECMETW**	Three phase electricity meter	●	●	**103.100,–**
Domestic hot water connection kit for EKHWP300B H/O	**EKDVCPLT3H/X**	Connection kit for LT 4-8kW in combination with EKHWP300B	●		**76.300,–**
Domestic hot water connection kit for EKHWP500B H/O	**EKDVCPLT5H**	Connection kit for LT 4-16kW heating only in combination with EKHWP500B	●	●	**149.900,–**
Domestic hot water connection kit for EKHWP500B H/C	**EKDVCPLT5X**	Connection kit for LT 4-16kW heating & cooling in combination with EKHWP500B	●	●	**198.900,–**
Electrical Booster Heater	**EKBH3S**	Electrical booster heat for EKHWP-B tanks	●	●	**97.600,–**

Domestic Hot Water Tanks (can be used for solar option)			Applicable for:		PRICE HUF
			4-8kW	11-16kW	
Stainless Steel Domestic Hot Water Tank 150L	**EKHWS150B3V3**	incl. 3kW booster heater 1~ 230V, height 900mm, diameter 580mm, weight 37kg	●	●	**305.500,–**
Wallbracket for 150L stainless steel tank	**EKWBSWW150**		●	●	**84.400,–**
Stainless Steel Domestic Hot Water Tank 200L	**EKHWS200B3V3**	incl. 3kW booster heater 1~ 230V, height 1150mm, diameter 580mm, weight 45kg	●	●	**315.800,–**
Stainless Steel Domestic Hot Water Tank 200L	**EKHWS200B3Z2**	incl. 3kW booster heater 2~ 400V, height 1150mm, diameter 580mm, weight 45kg	●	●	**315.800,–**
Stainless Steel Domestic Hot Water Tank 300L	**EKHWS300B3V3**	incl. 3kW booster heater 1~ 230V, height 1600mm, diameter 580mm, weight 59kg	●	●	**356.600,–**
Stainless Steel Domestic Hot Water Tank 300L	**EKHWS300B3Z2**	incl. 3kW booster heater 2~ 400V, height 1600mm, diameter 580mm, weight 59kg	●	●	**356.600,–**
Enameled Domestic Hot Water Tank 150L	**EKHWE150A3V3**	incl. 3kW booster heater 1~ 230V, height 1205mm, diameter 545mm, weight 80kg	●	●	**255.000,–**
Enameled Domestic Hot Water Tank 150L (wallmounted)	**EKHWET150A3V3**	incl. 3kW booster heater 1~ 230V, height 1205mm, diameter 545mm, weight 82kg	●	●	**276.600,–**
Enameled Domestic Hot Water Tank 200L	**EKHWE200A3V3**	incl. 3kW booster heater 1~ 230V, height 1580mm, diameter 545mm, weight 104kg	●	●	**262.800,–**
Enameled Domestic Hot Water Tank 200L	**EKHWE200A3Z2**	incl. 3kW booster heater 2~ 400V, height 1580mm, diameter 545mm, weight 104kg	●	●	**262.800,–**
Enameled Domestic Hot Water Tank 300L	**EKHWE300A3V3**	incl. 3kW booster heater 1~ 230V, height 1572mm, diameter 660mm, weight 140kg	●	●	**297.000,–**
Enameled Domestic Hot Water Tank 300L	**EKHWE300A3Z2**	incl. 3kW booster heater 2~ 400V, height 1572mm, diameter 660mm, weight 140kg	●	●	**297.000,–**
Pressureless 300L Domestic Hot Water Tank	**EKHWP300B**	Pressureless hygienic domestic hot water tank with solar option for 4-8 kW LT heat pumps	●		**546.000,–**
Pressureless 500L Domestic Hot Water Tank	**EKHWP500B**	Pressureless hygienic domestic hot water tank with solar option for 4-16kW LT heat pumps	●	●	**664.200,–**

■ Combinations

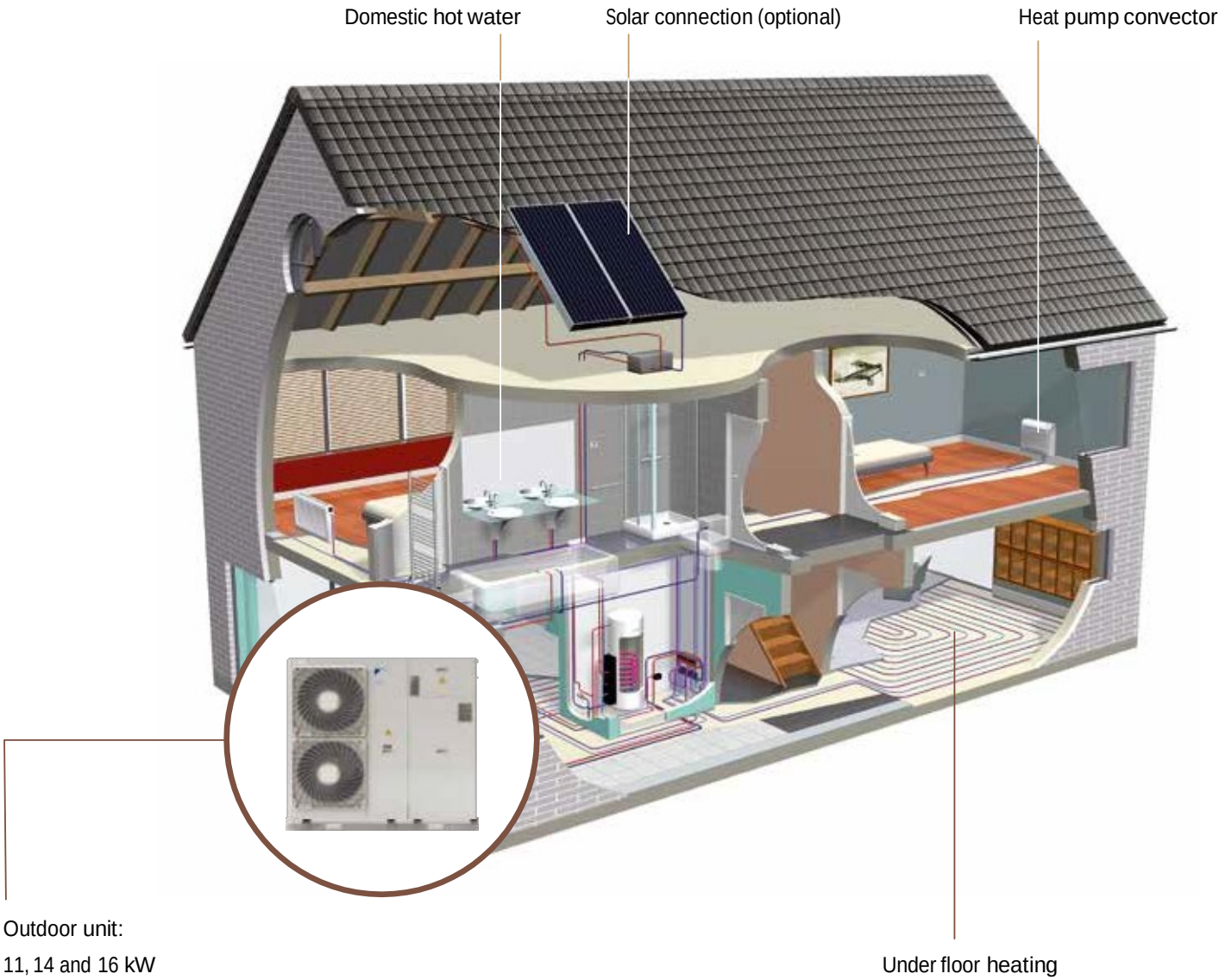
		INDOOR UNIT									
		Wallmounted			Floorstanding			Wallmounted		Floorstanding	
		EHBH04C3V EHBX04C3V	EHBH08C3V EHBX08C3V	EHBH08C9W EHBX08C9W	EHVH04S18C3V EHVX04S18C3V	EHVH08S18C3V EHVX08S18C3V	EHVH08S26C9W EHVX08S26C9W	EHBH16C3V EHBX16C3V	EHBH16C9W EHBX16C9W	EHVH16S18C3V EHVX16S18C3V	EHVH16S26C9W EHVX16S26C9W
OUTDOOR UNIT	ERLQ004CV3	●	–	–	●	–	–	–	–	–	–
	ERLQ006CV3	–	●	●	–	●	●	–	–	–	–
	ERLQ008CV3	–	●	●	–	●	●	–	–	–	–
	ERLQ011CV3	–	–	–	–	–	–	●	●	●	●
	ERLQ014CV3	–	–	–	–	–	–	●	●	●	●
	ERLQ016CV3	–	–	–	–	–	–	●	●	●	●
	ERLQ011CW1	–	–	–	–	–	–	●	●	●	●
	ERLQ014CW1	–	–	–	–	–	–	●	●	●	●
	ERLQ016CW1	–	–	–	–	–	–	●	●	●	●

Monobloc system

Everything combined in one outdoor unit

In addition to Daikin Altherma split systems, Daikin has introduced a monobloc version in which all hydraulic parts are located within the outdoor unit.
In this system, the water pipes, rather than the refrigerant pipes, run indoors from the outdoor unit, making installation much quicker and easier for the domestic installer.

Available capacities for monobloc: 11, 14, 16 kW



→ Daikin Altherma low temperature monobloc

Technical specifications

INVERTER

SINGLE PHASE

HEATING ONLY

					EDLQ011BB6V3	EDLQ014BB6V3	EDLQ016BB6V3
Heating capacity	Nom.			kW	11,20[1] / 8,11[2]	14,00[1] / 9,72[2]	16,00[1] / 10,69[2]
Power input	Heating	Nom.		kW	2,56[1] / 2,57[2]	3,29[1] / 3,12[2]	3,88[1] / 3,44[2]
COP					4,38[1] / 3,16[2]	4,25[1] / 3,12[2]	4,12[1] / 3,11[2]
Dimensions	Unit	Height X Width X Depth		mm	1.418 X 1.435 X 382		
Weight	Unit			kg	180		
Hydraulic component	Back-up heater current	Type			6V3		
		Power supply	Phase/Frequency/ Voltage	~/Hz/V	1~/50/230		
Operation range	Heating	Ambient	Min.~Max.	°C	-20~35		
		Water side	Min.~Max.	°C	15~55		
	Domestic hot water	Ambient	Min.~Max.	°C	-20~43		
		Water side	Min.~Max.	°C	25~80		
Refrigerant	Type				R-410A		
	Charge			kg	2,95		
Sound power level	Heating	Nom.		dBA	64	65	66
Sound pressure level	Heating	Nom.		dBA	51		52
Compressor component	Main power supply	Name			V3		
		Phase			1~		
		Frequency		Hz	50		
		Voltage		V	230		

(1) cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (nom. values according to EN14511)
(2) cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (nom. values according to EN14511)

INVERTER

THREE PHASE

HEATING ONLY

					EDLQ011BB6W1	EDLQ014BB6W1	EDLQ016BB6W1
Heating capacity	Nom.			kW	11,20[1] / 8,11[2]	14,00[1] / 9,72[2]	16,00[1] / 10,69[2]
Power input	Heating	Nom.		kW	2,60[1] / 2,61[2]	3,30[1] / 3,13[2]	3,81[1] / 3,44[2]
COP					4,31[1] / 3,11[2]	4,24[1] / 3,11[2]	4,20[1] / 3,11[2]
Dimensions	Unit	Height X Width X Depth		mm	1.418 X 1.435 X 382		
Weight	Unit			kg	180		
Hydraulic component	Back-up heater current	Type			6W1		
		Power supply	Phase/Frequency/ Voltage	~/Hz/V	3~/50/400		
Operation range	Heating	Ambient	Min.~Max.	°C	-25~35		
		Water side	Min.~Max.	°C	15~55		
	Domestic hot water	Ambient	Min.~Max.	°C	-25~43		
		Water side	Min.~Max.	°C	25~80		
Refrigerant	Type				R-410A		
	Charge			kg	2,95		
Sound power level	Heating	Nom.		dBA	64	65	66
Sound pressure level	Heating	Nom.		dBA	49	51	53
Compressor component	Main power supply	Name			W1		
		Phase			3N~		
		Frequency		Hz	50		
		Voltage		V	400		

(1) cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (nom. values according to EN14511)
(2) cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (nom. values according to EN14511)

→ Daikin Altherma low temperature monobloc

HEATING & COOLING

INVERTER

SINGLE PHASE

					EBLQ011BB6V3	EBLQ014BB6V3	EBLQ016BB6V3
Heating capacity	Nom.			kW	11,20[1] / 8,11[2]	14,00[1] / 9,72[2]	16,00[1] / 10,69[2]
Cooling capacity	Nom.			kW	12,85[1] / 10,00[2]	15,99[1] / 12,50[2]	16,73[1] / 13,10[2]
Power input	Cooling	Nom.		kW	3,87[1] / 3,69[2]	5,75[1] / 5,39[2]	6,36[1] / 5,93[2]
	Heating	Nom.		kW	2,56[1] / 2,57[2]	3,29[1] / 3,12[2]	3,88[1] / 3,44[2]
COP					4,38[1] / 3,16[2]	4,25[1] / 3,12[2]	4,12[1] / 3,11[2]
EER					3,32[1] / 2,71[2]	2,78[1] / 2,32[2]	2,63[1] / 2,21[2]
Dimensions	Unit	Height X Width X Depth		mm	1.418 X 1.435 X 382		
Weight	Unit			kg	180		
Hydraulic component	Back-up heater current	Type			6V3		
		Power supply	Phase/Frequency/ Voltage	~/Hz/V	1~/50/230		
Operation range	Heating	Ambient	Min.~Max.	°C	-20~35		
		Water side	Min.~Max.	°C	15~55		
	Cooling	Ambient	Min.~Max.	°C	10~46		
		Water side	Min.~Max.	°C	5~22		
	Domestic hot water	Ambient	Min.~Max.	°C	-20~43		
		Water side	Min.~Max.	°C	25~80		
Refrigerant	Type				R-410A		
	Charge			kg	2,95		
Sound power level	Heating	Nom.		dBA	64	65	66
	Cooling	Nom.		dBA	65	66	69
Sound pressure level	Heating	Nom.		dBA	5		52
	Cooling	Nom.		dBA	50	52	54
Compressor component	Main power supply	Name			V3		
		Phase			1~		
		Frequency		Hz	50		
		Voltage		V	230		

(1) cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)(nom. values according to EN14511)
(2) cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (nom. values according to EN14511)

HEATING & COOLING

INVERTER

THREE PHASE

					EBLQ011BB6W1	EBLQ014BB6W1	EBLQ016BB6W1
Heating capacity	Nom.			kW	11,20[1] / 8,11[2]	14,00[1] / 9,72[2]	16,00[1] / 10,69[2]
Cooling capacity	Nom.			kW	12,85[1] / 10,00[2]	15,99[1] / 12,50[2]	16,73[1] / 13,10[2]
Power input	Cooling	Nom.		kW	3,87[1] / 3,69[2]	5,40[1]/ 5,06[2]	6,15[1] / 5,75[2]
	Heating	Nom.		kW	2,60[1]/ 2,61[2]	3,30[1] / 3,13[2]	3,81[1] / 3,44[2]
COP					4,31[1] / 3,11[2]	4,24[1] / 3,11[2]	4,20[1] / 3,11[2]
EER					3,32[1] / 2,71[2]	2,96[1] / 2,47[2]	2,72[1] / 2,28[2]
Dimensions	Unit	Height X Width X Depth		mm	1.418 X 1.435 X 382		
Weight	Unit			kg	180		
Hydraulic component	Back-up heater current	Type			6W1		
		Power supply	Phase/Frequency/ Voltage	~/Hz/V	3~/50/400		
Operation range	Heating	Ambient	Min.~Max.	°C	-25~35		
		Water side	Min.~Max.	°C	15~55		
	Cooling	Ambient	Min.~Max.	°C	10~46		
		Water side	Min.~Max.	°C	5~22		
	Domestic hot water	Ambient	Min.~Max.	°C	-25~43		
		Water side	Min.~Max.	°C	25~80		
Refrigerant	Type				R-410A		
	Charge			kg	2,95		
Sound power level	Heating	Nom.		dBA	64	65	66
	Cooling	Nom.		dBA	65	66	69
Sound pressure level	Heating	Nom.		dBA	49	51	53
	Cooling	Nom.		dBA	50	52	54
Compressor component	Main power supply	Name			W1		
		Phase			3N~		
		Frequency		Hz	50		
		Voltage		V	400		

(1) cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (nom. values according to EN14511)
(2) cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (nom. values according to EN14511)

→ Daikin Altherma low temperature monobloc

Pricelist

Daikin Altherma monobloc is designed as a compact unit, including refrigeration cycle and all necessary parts of the water cycle in the units casing.
Daikin Altherma monobloc simply has to be connected to water pipings, without the need for refrigeration piping done by the installer.
Beside hydraulic parts such as water pump, expansion vessel, safety valve, water filter and flow switch monobloc also includes a 6 kW factory mounted backup heater, which can be reduced during commissioning to a minimum of 2 kW (400V heater) or 3 kW (230V heater).

Daikin Altherma low temperature monobloc heating only Inverter monobloc heat pump with nominal capacities from 11 to 16 kW. Nominal capacity is measured at A7/W35.			**PRICE HUF**
Daikin Altherma 11kW Monobloc 230V	**EDLQ011BB6V3**	6kW BUH, Power Supply 1~230V	**1.862.800,–**
Daikin Altherma 14kW Monobloc 230V	**EDLQ014BB6V3**	6kW BUH, Power Supply 1~230V	**2.045.600,–**
Daikin Altherma 14kW Monobloc 230V	**EDLQ016BB6V3**	6kW BUH, Power Supply 1~230V	**2.198.100,–**
Daikin Altherma 11kW Monobloc 400V	**EDLQ011BB6W1**	6kW BUH, Power Supply 3~400V	**2.027.400,–**
Daikin Altherma 14kW Monobloc 400V	**EDLQ014BB6W1**	6kW BUH, Power Supply 3~400V	**2.222.500,–**
Daikin Altherma 14kW Monobloc 400V	**EDLQ016BB6W1**	6kW BUH, Power Supply 3~400V	**2.400.000,–**

Daikin Altherma low temperature monobloc heating & cooling Inverter monobloc heat pump with nominal capacities from 11 to 16 kW. Nominal capacity is measured at A7/W35.			**PRICE HUF**
Daikin Altherma 11kW Monobloc 230V	**EBLQ011BB6V3**	6kW BUH, Power Supply 1~230V	**1.942.400,–**
Daikin Altherma 14kW Monobloc 230V	**EBLQ014BB6V3**	6kW BUH, Power Supply 1~230V	**2.125.300,–**
Daikin Altherma 14kW Monobloc 230V	**EBLQ016BB6V3**	6kW BUH, Power Supply 1~230V	**2.277.400,–**
Daikin Altherma 11kW Monobloc 400V	**EBLQ011BB6W1**	6kW BUH, Power Supply 3~400V	**2.107.100,–**
Daikin Altherma 14kW Monobloc 400V	**EBLQ014BB6W1**	6kW BUH, Power Supply 3~400V	**2.301.900,–**
Daikin Altherma 14kW Monobloc 400V	**EBLQ016BB6W1**	6kW BUH, Power Supply 3~400V	**2.479.400,–**

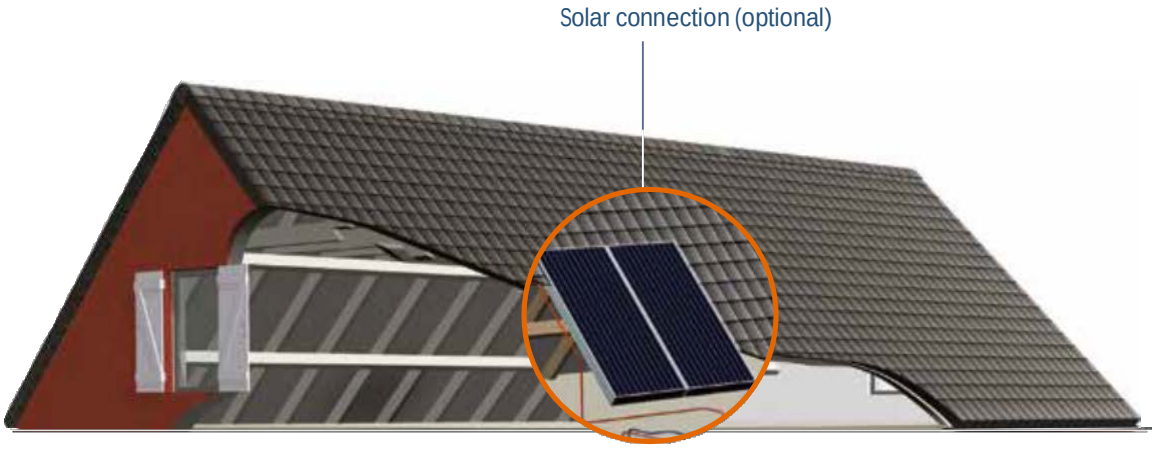
→ Daikin Altherma low temperature monobloc

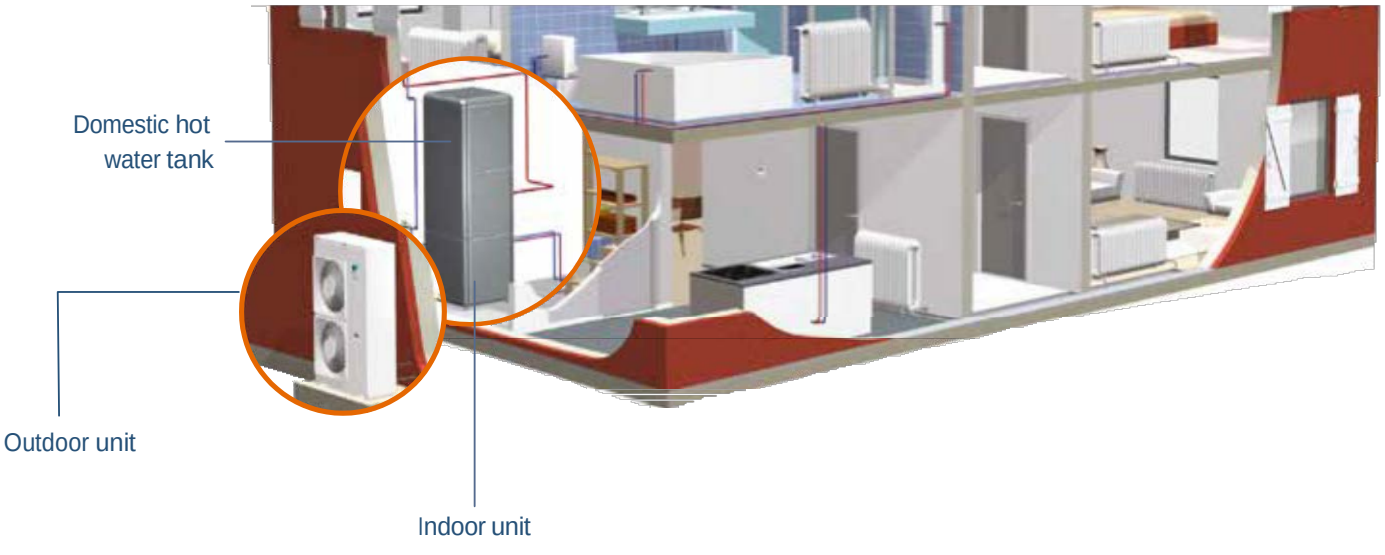
Options & accessories			Applicable for: 11-16kW	PRICE HUF
Wired room thermostat	**EKRTWA**	Wired Digital Room Thermostat	●	**38.000,–**
Wireless room thermostat	**EKRTR**	Wireless Digital Room Thermostat	●	**71.700,–**
Digital I/O PCB	**EKRP1HBA**	Remote alarm / operation status / …	●	**41.100,–**
Thermostat external sensor	**EKRTETS**	Temperature measurement remotely from wireless room thermostat (e.g. floor temperature)	●	**4.700,–**
Solar Kit	**EKSOLHW**	Heat exchanger to connect Daikin solar system to EKHWS and EKHWE DHW tank	●	**230.500,–**
Domestic hot water connection kit for EKHWP500B H/O	**EKDVCPLT5H**	Connection kit for EDLQ heating only models in combination with EKHWP500B	●	**149.900,–**
Domestic hot water connection kit for EKHWP500B H/C	**EKDVCPLT5X**	Connection kit for EBLQ heating & cooling models in combination with EKHWP500B	●	**198.900,–**
Electrical Booster Heater	**EKBH3S**	Electrical booster heat for EKHWP-B tanks	●	**97.600,–**

Domestic hot water tanks (can be used for solar option)			Applicable for: 11-16kW	PRICE HUF
Stainless Steel Domestic Hot Water Tank 150L	**EKHWS150B3V3**	incl. 3kW booster heater 1~ 230V, height 900mm, diameter 580mm, weight 37kg	●	**305.500,–**
Wallbracket for 150L stainless steel tank	**EKWBSWW150**		●	**84.400,–**
Stainless Steel Domestic Hot Water Tank 200L	**EKHWS200B3V3**	incl. 3kW booster heater 1~ 230V, height 1150mm, diameter 580mm, weight 45kg	●	**315.800,–**
Stainless Steel Domestic Hot Water Tank 200L	**EKHWS200B3Z2**	incl. 3kW booster heater 2~ 400V, height 1150mm, diameter 580mm, weight 45kg	●	**315.800,–**
Stainless Steel Domestic Hot Water Tank 300L	**EKHWS300B3V3**	incl. 3kW booster heater 1~ 230V, height 1600mm, diameter 580mm, weight 59kg	●	**356.600,–**
Stainless Steel Domestic Hot Water Tank 300L	**EKHWS300B3Z2**	incl. 3kW booster heater 2~ 400V, height 1600mm, diameter 580mm, weight 59kg	●	**356.600,–**
Enameled Domestic Hot Water Tank 150L	**EKHWE150A3V3**	incl. 3kW booster heater 1~ 230V, height 1205mm, diameter 545mm, weight 80kg	●	**255.000,–**
Enameled Domestic Hot Water Tank 150L (wallmounted)	**EKHWET150A3V3**	incl. 3kW booster heater 1~ 230V, height 1205mm, diameter 545mm, weight 82kg	●	**276.600,–**
Enameled Domestic Hot Water Tank 200L	**EKHWE200A3V3**	incl. 3kW booster heater 1~ 230V, height 1580mm, diameter 545mm, weight 104kg	●	**262.800,–**
Enameled Domestic Hot Water Tank 200L	**EKHWE200A3Z2**	incl. 3kW booster heater 2~ 400V, height 1580mm, diameter 545mm, weight 104kg	●	**262.800,–**
Enameled Domestic Hot Water Tank 300L	**EKHWE300A3V3**	incl. 3kW booster heater 1~ 230V, height 1572mm, diameter 660mm, weight 140kg	●	**297.000,–**
Enameled Domestic Hot Water Tank 300L	**EKHWE300A3Z2**	incl. 3kW booster heater 2~ 400V, height 1572mm, diameter 660mm, weight 140kg	●	**297.000,–**
Pressureless 500L Domestic Hot Water Tank	**EKHWP500B**	Pressureless hygienic domestic hot water tank with solar option	●	**664.200,–**

For replacement of traditional boilers

Daikin Altherma high temperature system offers heating and domestic hot water for your home. This system can perfectly replace a traditional boiler and connect to the existing piping. Daikin Altherma high temperature is therefore the ideal solution for renovations. The split system consists of an outdoor unit and an indoor unit and can be completed with solar connection.





Split system

A split system consists of an outdoor unit and an indoor unit

The Daikin Altherma outdoor unit includes a heat pump that extracts heat from the outside air resulting in nearly 2/3 of all usable heat coming from a sustainable and free source.
The outdoor unit extracts heat from the ambient outdoor air. This heat is transferred to the indoor unit via refrigerant piping. The indoor unit receives the heat from the outdoor unit and further increases the temperature, allowing water temperatures up to 80°C for heating through radiators and for domestic hot water use. Daikin's unique cascade compressor approach to the heat pumps (one in the outdoor unit/one in the indoor unit) means optimum comfort at even the coldest outdoor temperatures, without the need for an electric back-up heater.
Daikin Altherma high temperature heats up to 3 times more efficiently than a traditional heating system based on fossil fuels or electricity. A lower running cost is thus achieved, while you can still enjoy a stable and pleasant level of comfort.*

* COP (Coefficient of Performance) of up to 3.08

Domestic hot water tank

Daikin Altherma's high water temperature is ideal for heating domestic hot water without the need for an additional electric heater. Rapid heating of domestic hot water also means smaller heaters are needed. For a family of approximately 4 people, the standard tank is the best solution. Should you require more hot water, a larger tank is also available.

Heat emitters

The Daikin Atherma high temperature system is designed to work with high-temperature radiators, which come in various sizes and formats to suit the interior design as well as the heating requirement. The radiators can be individually controlled or they can be regulated by the central heating control programme.

Solar connection

The Daikin Altherma high temperature heating system can optionally use solar energy for hot water production.
If the solar energy is not required immediately, the purpose-built hot water tank (EKHWP) can store large quantities of heated water for up to a day for later use as domestic hot water or for heating.

→ Daikin Altherma high temperature

Technical specifications

INVERTER

OUTDOOR UNIT				ERRQ011AV1	ERRQ014AV1	ERRQ016AV1	ERRQ011AY1	ERRQ014AY1	ERRQ016AY1
Heating capacity	Nom.		kW	11 [1] / 11 [2]	14 [1] / 14 [2]	16 [1] / 16 [2]	11 [1] / 11 [2]	14 [1] / 14 [2]	16 [1] / 16 [2]
Power input	Heating	Nom.	kW	3,57 [1] / 4,40 [2]	4,66 [1] / 5,65 [2]	5,57 [1] / 6,65 [2]	3,57 [1] / 4,40 [2]	4,66 [1] / 5,65 [2]	5,57 [1] / 6,65 [2]
COP				3,08 [1] / 2,50 [2]	3,00 [1] / 2,48 [2]	2,88 [1] / 2,41 [2]	3,08 [1] / 2,50 [2]	3,00 [1] / 2,48 [2]	2,88 [1] / 2,41 [2]
Dimensions	Unit	H x W x D	mm	1.345x900x320					
Weight	Unit		kg	120					
Operation range	Heating	Min.~Max.	°CWB	-20~20					
	Domestic hot water	Min.~Max.	°CDB	-20~35					
Refrigerant	Type			R-410A					
	Charge		kg	4,5					
Sound power level	Heating	Nom.	dBA	68	69	71	68	69	71
Sound pressure level	Heating	Nom.	dBA	52	53	55	52	53	55
Power supply	Name/Phase/Frequency/Voltage		Hz/V	1~/50/220-440			3~/50/380-415		
Current	Recommended fuses		A	25			16		

(1) EW 55ºC; LW 65ºC; Dt 10ºC; ambient conditions: 7ºCDB/6ºCWB
(2) EW 70ºC; LW 80ºC; Dt 10ºC; ambient conditions: 7ºCDB/6ºCWB

INDOOR UNIT - floor standing					EKHBRD011ACV1	EKHBRD014ACV1	EKHBRD016ACV1	EKHBRD011ACY1	EKHBRD014ACY1	EKHBRD016ACY1
Casing	Colour				Metallic grey					
	Material				Precoated sheet metal					
Dimensions	Unit	H x W x D		mm	705x600x695					
Weight	Unit			kg	144,25			147,25		
Operation range	Heating	Ambient	Min.~Max.	°C	-20~20					
		Water side	Min.~Max.	°C	25~80					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~35					
		Water side	Min.~Max.	°C	25~80					
Refrigerant	Type				R-134a					
	Charge			kg	3,2					
Sound pressure level	Nom.			dBA	43 / 46	45 / 46	46 / 46	43 / 46	45 / 46	46 / 46	43 / 46	45 / 46	46 / 46	43 / 46	45 / 46	46 / 46
	Night quiet mode	Level 1		dBA	40	43	45	40	43	45	40	43	45	40	43	45
Power supply	Name				V1			Y1		
	Phase				1~			3~		
	Frequency			Hz	50					
	Voltage			V	220-240			380-415		
Current	Recommended fuses			A	25			16		

→ Daikin Altherma high temperature

Solar collector				EKSH26P	EKSV21P	EKSV26P
Dimensions	Unit	H x W x D	mm	1.300x2.000x85	2.000x1.006x85	2.000x1.300x85
Weight	Unit		kg	42	35	42
Volume			l	2,1	1,3	1,7
Surface	Outer		m²	2,6	2,01	2,6
	Aperture		m²	2,350	1,79	2,35
	Absorber		m²	2,360	1,8	2,36
Coating				Micro-therm (absorption max.96%, Emission ca. 5% +/-2%)		
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate		
Glazing				Single pane safety glass, transmission +/- 92%		
Allowed roof angle	Min.~Max.		°	15~80		
Operating pressure	Max.		bar	6		
Stand still temperature	Max.		°C	200		
Thermal performance	Zero loss collector efficiency η0		%	-		

Solar controller				EKSRPS3
Mounting				On side of tank
Dimensions	Unit	H x W x D	mm	815x230x142
Thermal performance	Zero loss collector efficiency η0		%	-
Control	Type			Digital temperature difference controller with plain text display
	Power consumption		W	2
Sensor	Solar panel temperature sensor			Pt1000
	Storage tank sensor			PTC
	Return flow sensor			PTC
	Feed temperature and flow sensor			Voltage signal (3,5V DC)
Power supply	Voltage		V	230

Domestic hot water tank				EKHTS200AC	EKHTS260AC
Casing	Colour			Metallic grey	
	Material			Galvanised steel (precoated sheet metal)	
Dimensions	Unit	H x W x D	mm	2.010x600x695	2.285x600x695
Weight	Unit	Empty	kg	70	78
Tank	Water volume		l	200	260
	Material			Stainless steel (EN 1.4521)	
	Maximum water temperature		°C	75	
	Insulation	Heat loss	kWh/24h	1,2	1,5
Heat exchanger	Quantity			1	
	Tube material			Duplex steel (EN 1.4162)	
	Face area		m²	1,56	
	Internal coil volume		l	7,5	

Domestic hot water tank				EKHWP300B	EKHWP500B
Dimensions	Unit	Height	mm	1.640	1.640
		Width	mm	595	790
		Depth	mm	615	790
Weight	Unit	Empty	kg	59	93
Tank	Water volume		l	300	500
	Maximum water temperature		°C	85	
	Insulation	Heat loss	kWh/24h	1,3	1,4
Heat exchanger	Domestic hot water	Tube material		Stainless steel	
		Face area	m²	5,8	6
		Internal coil volume	l	27,9	29
		Operating pressure	bar	6	
		Average specific thermal output	W/K	2.790	2.900
	Charging	Tube material		Stainless steel	
		Face area	m²	2,7	3,8
		Internal coil volume	l	13,2	18,5
		Operating pressure	bar	3	
		Average specific thermal output	W/K	1.300	1.800
	Auxiliary solar heating	Tube material		Stainless steel	
		Face area	m²	-	0,5
		Internal coil volume	l	-	2,3
		Operating pressure	bar	3	
		Average specific thermal output	W/K	-	280

→ Daikin Altherma high temperature

Pricelist

Daikin Altherma HT represents the most innovative solution for refurbishment projects. Equipped with a double inverter cascade system, it can produce leaving water temperatures up to 80°C, reached purely on thermodynamic principles – without an additional direct electrical heater.

Change a boiler directly to Daikin Altherma HT - your radiators can stay, no additional investments are necessary.

Daikin Altherma cascade technology

High performance in 3 steps:

1 The outdoor unit extracts heat from the ambient outdoor air. This heat is transferred to the indoor unit via R-410A refrigerant.

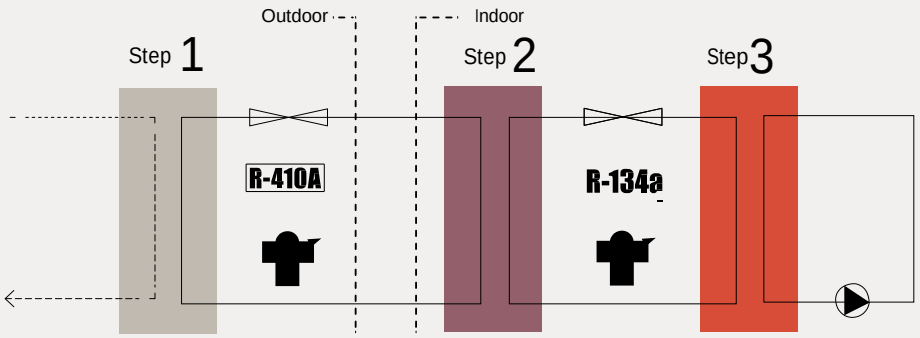
Daikin Altherma high temperature outdoor units Inverter Split Heat pump System with nominal capacities from 11 to 16 kW. Nominal capacity is measured at A7/W65, delta T 5K. Can only be combined with an indoor unit of the same capacity class and power supply.			**PRICE HUF**
Daikin Altherma HT 11kW outdoor unit	**ERRQ011AV1**	Power Supply 1~ 230V	**860.400,–**
Daikin Altherma HT 14kW outdoor unit	**ERRQ014AV1**	Power Supply 1~ 230V	**1.028.000,–**
Daikin Altherma HT 16kW outdoor unit	**ERRQ016AV1**	Power Supply 1~ 230V	**1.167.600,–**
Daikin Altherma HT 11kW outdoor unit	**ERRQ011AY1**	Power Supply 3~400V	**954.800,–**
Daikin Altherma HT 14kW outdoor unit	**ERRQ014AY1**	Power Supply 3~400V	**1.128.200,–**
Daikin Altherma HT 16kW outdoor unit	**ERRQ016AY1**	Power Supply 3~400V	**1.286.300,–**

Daikin Altherma high temperature indoor units (floorstanding) for heating only applications. All basic necessary hydraulic components included. Domestic Hot water tank can be mounted on top of or next to the indoor unit as an option. Can only be combined with an outdoor unit of the same capacity class and power supply.			**PRICE HUF**
Daikin Altherma HT 11kW indoor unit	**EKHBRD011ACV1**	Floorstanding unit, power supply 1~ 230V	**1.369.300,–**
Daikin Altherma HT 14kW indoor unit	**EKHBRD014ACV1**	Floorstanding unit, power supply 1~ 230V	**1.421.600,–**
Daikin Altherma HT 16kW indoor unit	**EKHBRD016ACV1**	Floorstanding unit, power supply 1~ 230V	**1.465.200,–**
Daikin Altherma HT 11kW indoor unit	**EKHBRD011ACY1**	Floorstanding unit, power supply 3~ 400V	**1.398.500,–**
Daikin Altherma HT 14kW indoor unit	**EKHBRD014ACY1**	Floorstanding unit, power supply 3~ 400V	**1.452.900,–**
Daikin Altherma HT 16kW indoor unit	**EKHBRD016ACY1**	Floorstanding unit, power supply 3~ 400V	**1.502.100,–**

Combinations

			INDOOR UNIT					
			EKHBRD011ACV1	EKHBRD014ACV1	EKHBRD016ACV1	EKHBRD011ACY1	EKHBRD014ACY1	EKHBRD016ACY1
			230V			**400V**		
OUTDOOR UNIT	**230V**	**ERRQ011AV1**	●	-	–	–	–	–
		ERRQ014AV1	–	●	–	–	–	–
		ERRQ016AV1	–	–	●	–	–	–
	400V	**ERRQ011AY1**	–	–	–	●	–	–
		ERRQ014AY1	–	–	–	–	●	–
		ERRQ016AY1	–	–	–	–	–	●

→ Daikin Altherma high temperature



2 The indoor unit receives the heat and further increases the temperature with R-134a refrigerant.

3 The heat is transferred from the R-134a refrigerant circuit to the water circuit. Thanks to the unique cascade compressor approach, water temperatures of 80° C can be reached without using an additional back-up heater.

Options & accessories			Applicable for: 11-16kW	PRICE HUF
Wired room thermostat	**EKRTWA**	Wired Digital Room Thermostat	●	**38.000,–**
Wireless room thermostat	**EKRTR**	Wireless Digital Room Thermostat	●	**71.700,–**
Digital I/O PCB	**EKRP1HBA**	Remote alarm / operation status / …	●	**41.100,–**
Modbus PCD	**RTD-W**	Monitoring and control ModBus interface	●	**111.400,–**
Sequencing Controller	**EKCC-W**	Master/slave control kit that can control and monitor up to 16 hydroboxes, connected through RTD-W	●	**305.100,–**
Thermostat external sensor	**EKRTETS**	Temperature measurement remotely from wireless room thermostat (e.g. floor temperature)	●	**4.700,–**
Demand PCB for connection of room thermostat or backup heater	**EKRP1AHT**	Required when EKRTWA or EKRTR is used as a room thermostat or if a backup heater is installed	●	**41.100,–**
Remote user interface	**EKRUAHTB**	Can be used as a second user interface (master/slave) besides the one delivered with the indoor unit	●	**61.700,–**
In-line backup heater 1~, 230V, 6kW	**EKBUHA6V3**	Electrical backup heater for space heating support only	●	**181.600,–**
In-line backup heater 3~, 400V, 6kW	**EKBUHA6W1**	Electrical backup heater for space heating support only	●	**181.600,–**
Option kit for standalone tank	**EKFMAHTB**	Kit required when EKHTS tanks are to be placed next to the indoor unit	●	**164.600,–**
Domestic hot water connection kit for EKHWP300B	**EKEPHT3H**	Connection kit for HT in combination with EKHWP300B	●	**78.000,–**
Domestic hot water connection kit for EKHWP500B	**EKEPHT5H**	Connection kit for HT in combination with EKHWP500B	●	**140.100,–**

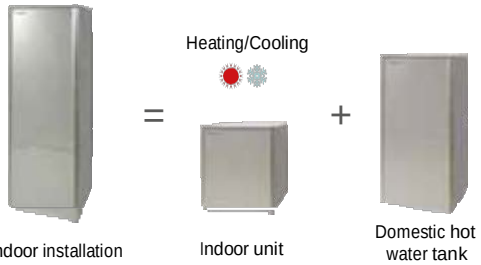
Domestic hot water tanks			Applicable for: 11-16kW	PRICE HUF
Stainless steel domestic hot water tank 200L	**EKHTS200AC**	Domestic hot water tank 200L, Dimensions HxBxT = 1.335x600x695, height increases to 2.010 mm if mounted on top of indoor unit	●	**448.300,–**
Stainless steel domestic hot water tank 260L	**EKHTS260AC**	Domestic hot water tank 260L, Dimensions HxBxT = 1.610x600x695, height increases to 2.285 mm if mounted on top of indoor unit	●	**506.500,–**
Pressureless 300L domestic hot water tank	**EKHWP300B**	Pressureless hygienic domestic hot water tank with solar option	●	**546.000,–**
Pressureless 500L domestic hot water tank	**EKHWP500B**	Pressureless hygienic domestic hot water tank with solar option	●	**664.200,–**

Efficient climate control for residential applications

1 Hot water
2 Heating
3 Cooling

One or more outdoor units
+ several indoor units
>> a modular system

Outdoor unit



Commercial applications

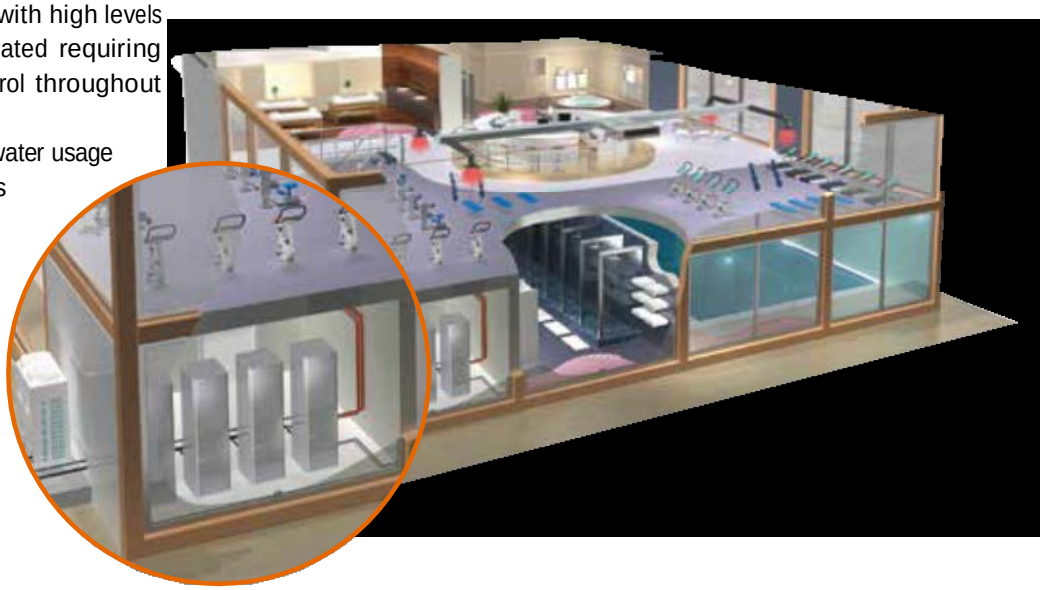
Fit for purpose & Hot water on demand

The challenges for a fitness center:

- Large exercise rooms with high levels of heat being generated requiring rigorous climate control throughout the space
- High 'on demand' hot water usage in the changing rooms

The solution:

- Daikin Altherma Flex Type with its modular and flexible approach.



→ Daikin Altherma Flex Type

3-IN-1 SYSTEM

Daikin Altherma Flex Type heats, cools and produces domestic hot water:

- Heating: leaving water temperatures up to 80° C
- Cooling: leaving water temperatures down to 5° C
- Hot water: tank temperatures up to 75° C

Thanks to the heat recovery function, the system can heat up the hot water tank up to 60°C with rejected heat from cooling operation.

ENERGY EFFICIENT HEAT PUMP TECHNOLOGY

Compared to an oil boiler, this results in:

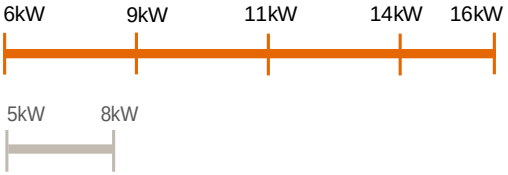
- Up to 36% less running costs*
- Up to 71% reduction of CO_2 emissions*
- Up to 35% reduction in primary energy use*

* Data calculated taking in account Belgian conditions: SCOP of 3, average energy prices 2007-2010, CO_2 emission factor for electricity production

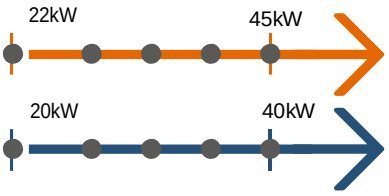
MODULAR SYSTEM

One or more inverter-controlled outdoor heat pump units can provide heating, cooling and hot water. Outdoor units between 23 and 45 kW extract the heat from the outdoor air, raise it to an intermediate temperature and transfer this heat energy to the individual indoor units.
Indoor units are available in several classes (6, 9, 11 ,14 and 16 kW), ensuring optimum efficiency. One outdoor unit can be combined with up to ten indoor units. Multiple outdoor units can be installed for larger applications.

1 Commercial space / 1 Apartment



Total building



Install separate outdoor units to reach higher capacities
(Separate system: the outdoor units are not connected to each other)

Note:
Heating capacities 7°C ambient temperature, cooling capacities 35°C ambient temperature

→ Daikin Altherma Flex Type

Technical specifications

INVERTER

OUTDOOR UNIT					EMRQ8A	EMRQ10A	EMRQ12A	EMRQ14A	EMRQ16A
Heating capacity	Nom.			kW	22,4	28	33,6	39,2	44,8
Cooling capacity	Nom.			kW	20	25	30	35	40
Dimensions	Unit	HxWxD		mm	1.680x1.300x765				
Weight	Unit			kg	331			339	
Operation range	Heating	Min.~Max.		°CWB	-15~20				
	Domestic hot water	Ambient	Min.~Max.	°CDB	-15~35				
	Cooling	Min.~Max.		°CDB	10~43				
Refrigerant	Type				R-410A				
Piping connections	Liquid	OD		mm	9,52		12,7		
	Suction	OD		mm	19,1	22,2	28,6		
	High and low pressure gas	OD		mm	15,9	19,1		22,2	
	Piping length	OU - IU	Max.	m	100				
		System	Equivalent	m	120				
	Total piping length	System	Actual	m	300				
Sound power level	Heating	Nom.		dBA	78		80	83	84
Sound pressure level	Heating	Nom.		dBA	58		60	62	63
Power supply	Phase/Voltage			V	3~/380-415				

Heating conditions: Ta = 7°CDB / 6°CWB, 100% connection ratio
Cooling conditions: Ta = 35°CDB, 100% connection ratio
* Capacity not guaranteed between -20°C and -15°C

→ Daikin Altherma Flex Type

INDOOR UNIT					EKHVMRD50A	EKHVMRD80A	EKHVMYD50A	EKHVMYD80A
Casing	Colour				Metallic grey			
	Material				Precoated sheet metal			
Dimensions	Unit	HxWxD		mm	705x600x695			
Weight	Unit			kg	92		120	
Operation range	Heating	Ambient	Min.~Max.	°C	-15~20			
		Water side	Min.~Max.	°C	25~80			
	Cooling	Ambient	Min.~Max.	°CDB	-~-		10~43	
		Water side	Min.~Max.	°C	-~-		5~20	
	Domestic hot water	Ambient	Min.~Max.	°CDB	-15~35			
		Water side	Min.~Max.	°C	45~75			
Refrigerant	Type				R-134a			
	Charge			kg	2			
Sound pressure level	Nom.			dBA	40 [1] / 43 [2]	42 [1] / 43 [2]	40 [1] / 43 [2]	42 [1] / 43 [2]
	Night quiet mode	Level 1		dBA	38 [1]			
Power supply	Name				V1			
	Phase				1~			
	Frequency			Hz	50			
	Voltage			V	220-240			
Current	Recommended fuses			A	20			

INDOOR UNIT					EKHBRD011ACV1	EKHBRD014ACV1	EKHBRD016ACV1	EKHBRD011ACY1	EKHBRD014ACY1	EKHBRD016ACY1
Casing	Colour				Metallic grey					
	Material				Precoated sheet metal					
Dimensions	Unit	HxWxD		mm	705x600x695					
Weight	Unit			kg	144,25			147,25		
Operation range	Heating	Ambient	Min.~Max.	°C	-20~20					
		Water side	Min.~Max.	°C	25~80					
	Cooling	Ambient	Min.~Max.	°CDB	-~-					
		Water side	Min.~Max.	°C	-~-					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~35					
		Water side	Min.~Max.	°C	25~80					
Refrigerant	Type				R-134a					
	Charge			kg	3,2					
Sound pressure level	Nom.			dBA	43 [1] / 46 [2]	45 [1] / 46 [2]	46 [1] / 46 [2]	43 [1] / 46 [2]	45 [1] / 46 [2]	46 [1] / 46 [2]
	Night quiet mode	Level 1		dBA	40 [1]	43 [1]	45 [1]	40 [1]	43 [1]	45 [1]
Power supply	Name				V1			Y1		
	Phase				1~			3~		
	Frequency			Hz	50					
	Voltage			V	220-240			380-415		
Current	Recommended fuses			A	25			16		

(1) Sound levels are measured at: EW 55°C; LW 65°C (2) Sound levels are measured at: EW 70°C; LW 80°C

→ Daikin Altherma Flex Type

Pricelist

Daikin Altherma Flex Type for residential and commercial applications is a 3-in-1 system offering heating, domestic hot water and cooling all-in-one highly efficient.

Daikin Altherma Flex Type achieves a typical seasonal COP of 3 in the moderate Western and central European climate. Further more, Daikin Altherma Flex Type is a modular system. Depending from your project one or more outdoor units can be combined with up to ten indoor units per outdoor unit.

Daikin Altherma Flex Type outdoor units. Nominal heating capacity is measured at Ta 7°C and nominal cooling capacity at Ta 35°C with a 100% connection ratio.			**PRICE HUF**
Daikin Altherma Flex outdoor unit 8HP	**EMRQ8A**	Outdoor unit with 22,4kW heating and 20kW cooling capacity, power suppy 3~ 400V	**2.332.900,–**
Daikin Altherma Flex outdoor unit 10HP	**EMRQ10A**	Outdoor unit with 28 kW heating and 25kW cooling capacity, power suppy 3~ 400V	**2.472.800,–**
Daikin Altherma Flex outdoor unit 12HP	**EMRQ12A**	Outdoor unit with 33,6kW heating and 30kW cooling capacity, power suppy 3~ 400V	**2.706.100,–**
Daikin Altherma Flex outdoor unit 14HP	**EMRQ14A**	Outdoor unit with 39,2kW heating and 35kW cooling capacity, power suppy 3~ 400V	**3.266.000,–**
Daikin Altherma Flex outdoor unit 16HP	**EMRQ16A**	Outdoor unit with 44,8kW heating and 40kW cooling capacity, power suppy 3~ 400V	**3.732.600,–**

Daikin Altherma Flex Type indoor units (floorstanding) for heating& cooling and heating only applications. All basic necessary hydraulic components included.			**PRICE HUF**
Daikin Altherma Flex 5kW indoor unit heating only	**EKHVMRD50A**	Power Supply 1~ 230V	**1.259.500,–**
Daikin Altherma Flex 5kW indoor unit heating & cooling	**EKHVMYD50A**	Power Supply 1~ 230V	**1.396.400,–**
Daikin Altherma Flex 8kW indoor unit heating	**EKHVMRD80A**	Power Supply 1~ 230V	**1.300.400,–**
Daikin Altherma Flex 8kW indoor unit heating & cooling	**EKHVMYD80A**	Power Supply 1~ 230V	**1.437.900,–**
Daikin Altherma Flex 11kW indoor unit heating only	**EKHBRD011ACV1**	Power Supply 1~ 230V	**1.369.300,–**
Daikin Altherma Flex 14kW indoor unit heating only	**EKHBRD014ACV1**	Power Supply 1~ 230V	**1.421.600,–**
Daikin Altherma Flex 16kW indoor unit heating only	**EKHBRD016ACV1**	Power Supply 1~ 230V	**1.465.200,–**
Daikin Altherma Flex 11kW indoor unit heating only	**EKHBRD011ACY1**	Power Supply 3~400V	**1.398.500,–**
Daikin Altherma Flex 14kW indoor unit heating only	**EKHBRD014ACY1**	Power Supply 3~400V	**1.452.900,–**
Daikin Altherma Flex 16kW indoor unit heating only	**EKHBRD016ACY1**	Power Supply 3~400V	**1.502.100,–**

→ Daikin Altherma Flex Type

Options & accessories			Applicable for: 11-16kW	PRICE HUF
Wired room thermostat	**EKRTWA**	Wired Digital Room Thermostat	●	**38.000,–**
Wireless room thermostat	**EKRTR**	Wireless Digital Room Thermostat	●	**71.700,–**
Digital I/O PCB	**EKRP1HBA**	Remote alarm / operation status	●	**41.100,–**
Modbus Interface	**RTD-W**	monitoring and control ModBus interface	●	**111.400,–**
Sequencing Controller	**EKCC-W**	master/slave control kit that can control and monitor up to 16 hydroboxes, connected through RTD-W	●	**305.100,–**
Thermostat external sensor	**EKRTETS**	Temperature measurement remotely from wireless room thermostat (e.g. floor temperature)	●	**4.700,–**
Demand PCB for connection of room thermostat or backup heater	**EKRP1AHT**	required when EKRTWA or EKRTR is used as a room thermostat or if a backup heater is installed	●	**41.100,–**
Remote user interface	**EKRUAHTB**	can be used as a second user interface (master/slave) besides the one delivered with the indoor unit	●	**61.700,–**
In-line backup heater 1~, 230V, 6kW	**EKBUHA6V3**	Electrical backup heater for space heating support only	●	**181.600,–**
In-line backup heater 3~, 400V, 6kW	**EKBUHA6W1**	Electrical backup heater for space heating support only	●	**181.600,–**
Option kit for standalone tank	**EKFMAHTB**	Kit required when EKHTS tanks are to be placed next to the indoor unit	●	**164.600,–**
Optionional billing kit	**EKMBIL1**	Option kit for billing of tank mounted on indoor unit	●	**42.800,–**
Central drainpan kit for outdoor unit	**KWC25C450**	drain pan kit to collect the condensate after defrost operation	●	**341.700,–**
Domestic hot water connection kit for EKHWP300B	**EKEPHT3H**	connection kit for HT in combination with EKHWP300B	●	**78.000,–**
Domestic hot water connection kit for EKHWP500B	**EKEPHT5H**	connection kit for HT in combination with EKHWP500B	●	**140.100,–**

Domestic hot water tanks			Applicable for: 11-16kW	PRICE HUF
Stainless steel domestic hot water tank 200L	**EKHTS200AC**	Domestic hot water tank 200L, Dimensions HxBxT = 1335x600x695, height increases to 2010 if mounted on top of indoor unit	●	**448.300,–**
Stainless steel domestic hot water tank 260L	**EKHTS260AC**	Domestic hot water tank 200L, Dimensions HxBxT = 1610x600x695, height increases to 2285 if mounted on top of indoor unit	●	**506.500,–**
Pressureless 300L domestic hot water tank	**EKHWP300B**	pressureless hygienic domestic hot water tank with solar option	●	**546.000,–**
Pressureless 500L domestic hot water tank	**EKHWP500B**	pressureless hygienic domestic hot water tank with solar option	●	**664.200,–**

Refrigerant branch kits for outdoor units		3 pipes		3 pipes	
Outdoor unit capacity type (HP)		**imperial**	**metric**	**imperial**	**metric**
8 + 10		KHRQ23M29T9	KHRQM23M29T	KHRQ22M29T9	KHRQM22M29T
Price	HUF	**52.100,–**	**52.100,–**	**46.300,–**	**46.300,–**
12 ~ 16		KHRQ23M64T	KHRQM23M64T	KHRQ22M64T	KHRQM22M64T
Price	HUF	**82.900,–**	**82.900,–**	**55.600,–**	**55.600,–**

Refnet joints for indoor units		3 pipes		3 pipes	
Indoor unit capacity index		**imperial**	**metric**	**imperial**	**metric**
< 200		KHRQ23M20T	KHRQM23M20T	KHRQ22M20T	KHRQM22M20T
Price	HUF	**44.400,–**	**44.400,–**	**34.100,–**	**34.100,–**
200 ≤ x < 290		KHRQ23M29T9	KHRQM23M29T	KHRQ22M29T9	KHRQM22M29T
Price	HUF	**52.100,–**	**52.100,–**	**46.300,–**	**46.300,–**
290 ≤ x < 520		KHRQ23M64T	KHRQM23M64T	KHRQ22M64T	KHRQM22M64T
Price	HUF	**82.900,–**	**82.900,–**	**55.600,–**	**55.600,–**

Refnet headers for indoor units		3 pipes		3 pipes	
Indoor unit capacity index		**imperial**	**metric**	**imperial**	**metric**
<200 and 200 ≤ x < 290		KHRQ23M29H	KHRQM23M29H	KHRQ22M29H	KHRQM22M29H
Price	HUF	**90.700,–**	**90.700,–**	**64.600,–**	**64.600,–**
290 ≤ x < 520		KHRQ23M64H	KHRQM23M64H	KHRQ22M64H	KHRQM22M64H
Price	HUF	**110.600,–**	**110.600,–**	**80.100,–**	**80.100,–**

Heat pump convector

The heat pump convector unit can provide both heating and cooling if required, since the heat pump convector is more than just a fan coil unit.
The heat pump convector also has a very low noise level.

When combining under floor heating and fan coil units, the low leaving water temperatures, important for efficiency, are adequate for under floor heating, but the fan coil units then need to be oversized in order to emit the proper levels of heat at these low water temperatures. The heat pump convector solves this problem.
The heat pump convector is able to emit the required levels of heat at low leaving water temperatures, while retaining a modest size.
Instead of the leaving water circuit being switched on and off via a thermostat in a single master room, each heat pump convector can be directly wired to the Daikin Altherma indoor unit, the system's intelligence centre. This allows all rooms to have heat when required, regardless of the state of the other rooms.
The heat pump convector saves on running costs thanks to the improved efficiency by approximately 25% compared to a heating system that combines under-floor heating and regular fan coil units. The heat pump convector can easily replace existing heat emitters, thanks to its plug and play installation.

→ Heat pump convector

→ Heat pump convector

Technical specifications

INDOOR UNITS				FWXV20A	FWXV15A
Heating capacity	Total capacity	Nom.	kW	2,0	1,5
Cooling capacity	Total capacity	Nom.	kW	1,7	1,2
	Sensible capacity	Nom.	kW	1,4	0,98
Power input	Heating	Nom.	kW	0,015	0,013
	Cooling	Nom.	kW	0,015	0,013
Dimensions	Unit	H x W x D	mm	600/700/210	
Weight	Unit		kg	15	
Piping connections	Drain/OD/Inlet/Outlet		mm/ inch	18/G 1/2/G 1/2	
Sound pressure level	Heating	Nom.	dBA	29	19
	Cooling	Nom.	dBA	29	19
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220	

(1) Cooling: indoor temp. 27°CDB, 19°CWB; entering water temp. 7°C, water temperature rise 5K.
(2) Heating: room temperature 20°CDB and entering water temperature 45°C, water temperature drop 5K.

Pricelist

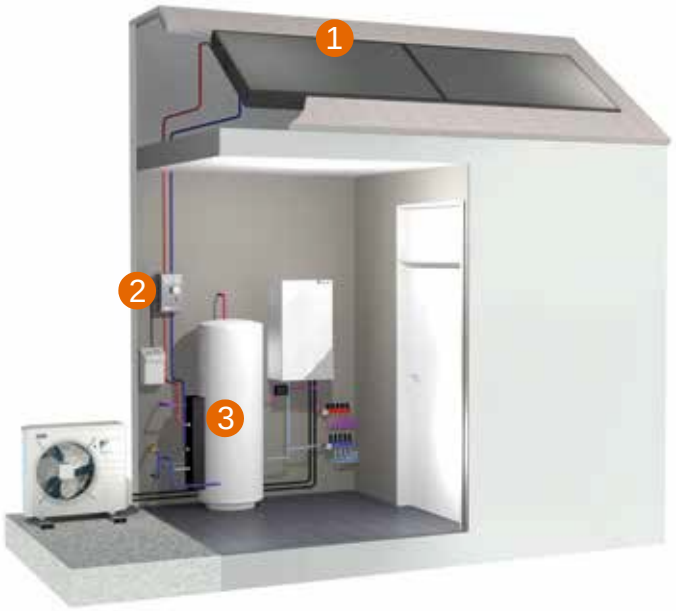
Daikin's Heat pump convector with interlink function is another heating innovation coming from the Daikin internal product development. Perfectly suitable for low temperature applications, e.g. in combination with underfloor heating, the Heat pump convector is a stylish, compact, intelligent and very silent solution for quick heating or cooling of residential areas.

Daikin Altherma Heat pump Convector			PRICE HUF
Daikin Altherma Heat pump Convector 1,5kW	**FWXV15A**	Heat pump convector with 1,5kW* heating capacity and 1,2kW** and 0,3kW*** cooling capacity	**190.400,–**
Daikin Altherma Heat pump Convector 2,0kW	**FWXV20A**	Heat pump convector with 2,0kW* heating capacity and 1,7kW** and 0,4kW*** cooling capacity	**206.500,–**

Options & Accessories			PRICE HUF
2 way valve kit	**EKVKHPC**	needs to be used in all cooling and high temperature applications, where watertemperatures of below 18°C and/or 60°C or above can occur	**26.000,–**

* water inlet temperature 45°C and water outlet temperature 40°C, room temperature 20°C DB - medium fanspeed
**water inlet temperature 7°C and water outlet temperature 12°C, room temperature 27°C DB / 19°C WB - medium fanspeed
***water inlet temperature 18°C and water outlet temperature 23°C, room temperature 27°C DB / 19°C WB - medium fanspeed

Solar connection



Daikin offers two types of solar systems in combination with their heat pumps.

Pressureless system

The system is filled with pure water which is transferred from the pressureless energy storage tank, whenever the sun is out. If no sun is out and thus no energy is needed, the water is drained back into the pressureless energy storage tank.

Pressurised system

The system is filled with heat transfer fluid with the correct amount of of antifreeze to avoid freezing in winter. The whole system is then pressurised and sealed.

Solar kit

The solar kit provides the transfer of solar heat to the Daikin Altherma hot water tank via an external heat exchanger. In contrast to tanks with two heat exchangers, this system allows the entire content of the tank to be efficiently heated with solar heat and, if necessary, with heat pump energy.

Solar collector

The high-efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating. The collectors can be mounted on the roof tiles.

1- Solar collector

2- Solar pump station

3- Solar kit available in combination with stand alone (EKHWS - EKHWE) domestic hot water tank

What do you need?

- Solar collector
- Plumbing network and solar pump station
- Supply tank: standard Daikin Altherma domestic hot water tank
- Solar kit
- Re-heater (Daikin Altherma heat pump unit which also provides the home with heating)

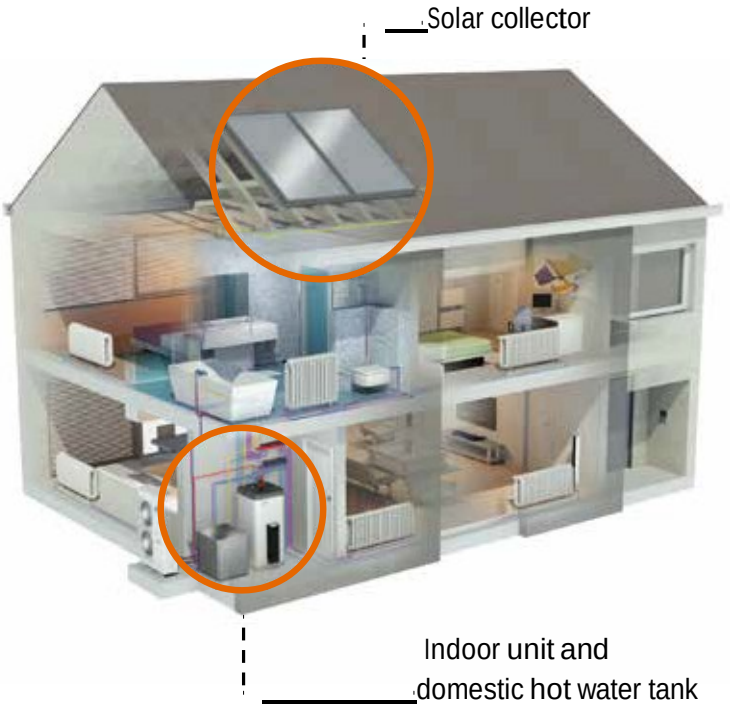
→ Daikin solar system

Solar collectors

Averaged over an entire year, the sun delivers half of the energy we need to bring our domestic hot water up to the desired temperature. High-efficiency collectors with highly selective coating transfer all the short-wave solar radiation into heat. The collectors can be mounted on roof tiles.

Operation

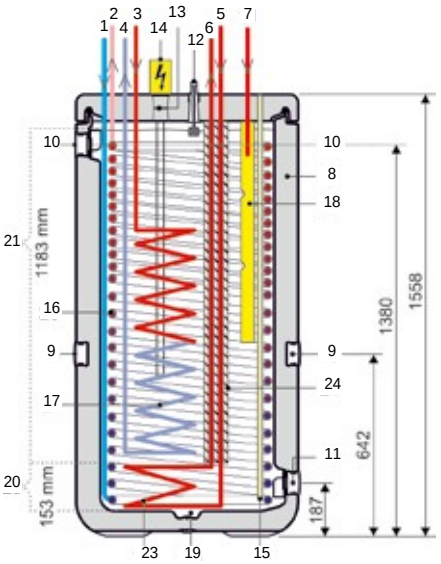
The solar collectors are only filled with water when sufficient heat is provided by the sun. In this case, both pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water. After filling, which takes less than a minute, one of the pumps switches off and water circulation is maintained by the remaining pump.



EKHWP: domestic hot water tank

The domestic hot water tank has two sections: The upper, always hot, section – the active water zone – and the lower, colder section – the solar zone.

1. The active water is heated in the upper section of the storage tank. The high temperature of this zone ensures that sufficient hot water is always available.
2. Solar collectors work more efficiently when colder water flows through the solar collectors. Therefore, the water that is fed directly to the solar collectors in solar operation is stored in the solar zone.

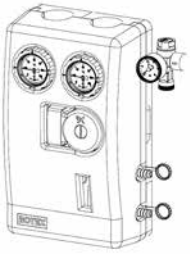


1. Cold water connection
2. Hot water connection
3. Storage tank charging flow
4. Storage tank charging return flow
5. Heating support flow
6. Heating support return
7. Drain Back solar flow
8. Storage tank (polypropylene double walled jacket with PUR hard foam heat insulation)
9. Mount for solar R3 controller / handle
10. Safety overflow connection
11. Drain-back solar - return flow / Filling and draining connection for storage tank water
12. Fill level indicator
13. Connection for booster heater
14. Electric immersion booster heater
15. Sensor pocket for tank temperature sensor
16. Domestic hot water heat exchanger
17. Charging heat exchanger
18. Inlet from solar collector
19. Pressure-free storage tank water
20. Solar zone
21. Hot water zone

→ Daikin solar system

Technical specifications

SOLAR CONNECTION				EKSOLHWAV1
Dimensions	Unit	H x W x D	mm	770x305x270
Weight	Unit		kg	8
Operation range	Ambient temperature	Min,~Max,	°C	1~35
Sound pressure level	Nom,		dBA	27
Thermal performance	Zero loss collector efficiency η_0		%	-
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240
Power supply intake				Indoor unit



ACCESSORY				EKSR3PA
Mounting				On wall
Dimensions	Unit	H x W x D	mm	332x230x145
Thermal performance	Zero loss collector efficiency η_0		%	-
Control	Type			Digital temperature difference controller with plain text display
	Power consumption		W	2
Sensor	Solar panel temperature sensor			Pt1000
	Storage tank sensor			PTC
	Return flow sensor			PTC
	Feed temperature and flow sensor			Voltage signal (3,5V DC)
Power supply	Frequency/Voltage		Hz/V	50/230

SOLAR COLLECTOR				EKSV26P	EKSH26P	EKSV21P
Dimensions	Unit	H x W x D	mm	2,000x1,300x85	1,300x2,000x85	2,000x1,006x85
Weight	Unit		kg	42		35
Volume			l	1,7	2,1	1,3
Surface	Outer		m²	2,601		2,01
	Aperture		m²	2,364		1,795
	Absorber		m²	2,354		1,791
Coating				Micro-therm (absorption max,96%, Emission ca, 5% +/-2%)		
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate		
Glazing				Single pane safety glass, transmission +/- 92%		
Allowed roof angle	Min,~Max,		°C	15~80		
Operating pressure	Max,		bar	6		
Stand still temperature	Max,		°C	200		
Thermal performance	Zero loss collector efficiency η_0		%	78,7		78,3
	Heat loss coefficient a1		W/m²,K	4,270		4,25
	Temperature dependence of the heat loss coefficient a2		W/ m²,K²	0,0070		0,0057
	Thermal capacity		kJ/K	6,5		-
	Incident angle modifier	AM at 50°		0,94		-
Installed position				Vertical	Horizontal	Vertical

SOLAR CONNECTION				EKSRPS3B
Dimensions	Unit	H x W x D	mm	-
Control	Type			Digital temperature difference controller with plain text display
	Power consumption		W	-
Mounting				On side of tank
Sensor	Solar panel temperature sensor			Pt1000
	Storage tank sensor			PTC
	Return flow sensor			PTC
	Feed temperature and flow sensor			Voltage signal (3,5V DC)

Pricelist

For Daikin Altherma LT, HT and Flex units a pressurised and pressureless solar system is available. Main components are the standard Daikin tanks as well as pressureless hygienic domestic hot water tanks, combined with Daikin's solar kits and controllers and solar panels for on-roof, in-roof and flat roof installations.

Material		Description		Price per unit HUF
Solar Panel	EKSV26P		Vertical big solar panel 2000 x 1300 mm	209.800,–
	EKSH26P		Horizontal big solar panel 2000 x 1300 mm	215.800,–
	EKSV21P		Vertical small solar panel 2000 x 1006 mm	182.900,–
Daikin hot water tanks & accessories	EKHWS*		Stainless steel tank	see page 9
	EKHWE*		Enameled tank	see page 9
	EKSOLHW		Solar heat exchanger kit	230.500,–
	EKHWP300B		Hygienic Domestic hot water tank, 300l	546.000,–
	EKHWP500B		Hygienic Domestic hot water tank, 500l	664.200,–
	165070		Set of 2 gravity brakes	3.500,–
	164102-RTX	FLG	FLG - flow regulating valve with flow rate indicator	17.700,–
	156015	VTA32	Thermostatic antiscald mixing valve	22.500,–
	156016		1" screw connection set for VTA32	8.900,–
	162070	MAGS12	Solar Expansion Vessel 12L	42.100,–
	162050	MAGS25	Solar Expansion Vessel 25L	41.400,–
	162051-RTX	MAGS35	Solar Expansion Vessel 35L	63.800,–
Solar Controlers & Pump Stations	EKSRPS3B		Solar controller for drain back applications	228.200,–
	EKSR3PA		Solar controller for pressurized applications	101.600,–
	EKSRDS1A		Solar pump station	151.100,–
	164116		Flow sensor for a pressurized system	50.800,–
Solar priority PCB + cable	EKRP1HBA		PCB kit to disable hot water mode through HP during solar water heating	41.100,–
	164110-RTX	BSKK	Solar priority cable / connection cable to disable heatpump	5.300,–
Solar panel installation accessories	164732	CON15	Pressureless Connection piping between solar panel & pump station: 15m	40.800,–
	164733	CON20	Pressureless Connection piping between solar panel & pump station: 20m	48.500,–
	164261-RTX	CONX25	Pressureless elongation pipe 2,5m including couplings	25.400,–
	164262-RTX	CONX50	Pressureless elongation pipe 5m including couplings	29.000,–
	164263	CONX100	Pressureless elongation pipe 10m including couplings	37.800,–
	164264	CONXV80	Pressureless elongation for inlet pipe 8m	32.500,–
	162073	CON15P16	Pressure solar pipe DN16 - 15m	146.600,–
	162071	CONXP16	Connectors DN16	3.500,–
	162074	CON15P20	Pressure solar pipe DN20 - 15m	181.400,–
	162072	CONXP20	Connectors DN20	5.300,–
	162075	CONCP16	Pressure solar connection set DN 16	22.500,–
	162076	CONCP20	Pressure solar connection set DN 20	32.300,–
	EKSRCRP		Connection kit, incl. red roof tile	81.300,–
	EKSRCAP		Connection kit, incl. anthracite roof tile	81.300,–
	EKSRCP		Connection kit ON ROOF	58.800,–
	162037-RTX	RCIP	Mounting kit IN-ROOF	40.200,–
	162038-RTX	RCFP	Mounting kit FLAT ROOF	76.800,–
	164709	CONFE	Additional roof breakthrough for opposite side connection	23.600,–
	162016-RTX	FIXVBP	Connection kit between 2 solar panels	16.500,–
	162035-RTX	CONRVP	Connection kit between 2 rows of collectors	21.300,–
	162045	CONLCP	Connection kit between 2 rows of collectors	32.500,–
	162066	FIXMP100	Mounting rail for V21	11.800,–
	162067	FIXMP130	Mounting rail for V26P	13.000,–
	162068	FIXMP200	Mounting rail for H26P	17.700,–
	164245	TS	Suporting shell for pressureless connection pipe	2.400,–
	162036-RTX	FIXADP	Variable height mounting set for on-roof mounting suitable for roof tiles	29.000,–
	162069	FIXADD	Standard mounting set for on-roof mounting suitable for roof tiles	7.200,–
	164723	FIXADS	Mounting set for on-roof mounting suitable for flat tiles e.g. shingles	17.100,–
	164703-RTX	FIXWD	Mounting set for on-roof mounting suitable for corrugated plates	16.500,–
	164704-RTX	FIXBD	Mounting set for on-roof mounting suitable for metal roofs	19.500,–
	162017	IBV21P	Basic IN ROOF installation kit for 2 EKSV21P	146.600,–
	162018	IEV21P	Extension IN ROOF installation kit for 1 additional EKSV21P	65.600,–
	162019	IBV26P	Basic IN ROOF installation kit for 2 EKSV26P	156.600,–
	162020	IEV26P	Extension IN ROOF installation kit for 1 additional EKSV26P	68.600,–
	164616-RTX	FIXIES	IN ROOF covering slate complementing kit	38.400,–
	162058	FBV26P	Basic FLAT ROOF support frame for 2 EKSV26P	176.100,–
	162059	FEV26P	Extension FLAT ROOF support frame for additional EKSV26P	70.300,–
	162060	FBH26P	Basic FLAT ROOF support frame for 1 EKSH26P	83.300,–
	162061	FEH26P	Extension FLAT ROOF support frame for additional EKSH26P	54.400,–
	162029-RTX	FIXLP	Release tool	2.400,–
	162052-RTX	GFL	20l ready to use glycol T_{min} = -28°C	27.800,–

Drain back combination tables

EKSV21P Drain back								
# of panels	2		3		4		5	
Material	On roof	In roof	On roof	In roof	On roof	In roof	On roof	In roof
EKSV21P	2	2	3	3	4	4	5	5
FIXVBP	1	1	2	2	3	3	4	4
FIXMP100	2	2	3	3	4	4	5	5
FIXADP FIXADS FIXWD FIXDB	2	0	3	0	4	0	5	0
IBV21P	0	1	0	1	0	1	0	1
IEV21P	0	0	0	1	0	2	0	3
EKHWP***B	1	1	1	1	1	1	1	1
EKSRPS3B	1	1	1	1	1	1	1	1
EKRP1HBA	1	1	1	1	1	1	1	1
BSKK	1	1	1	1	1	1	1	1
FLG	1*	1*	1*	1*	1*	1*	1*	1*
TS	1	1	1	1	1	1	1	1
CON15	1	1	1	1	1	1	1	1
EKSRCAP/EKSRCRP	1	0	1	0	1	0	1	0
RCIP	0	1	0	1	0	1	0	1

* : optional (recommended)

EKSH26P Drain back										
# of panels	1		2		3		4		5	
Material	On roof	Flat roof	On roof	Flat roof	On roof	Flat roof	On roof	Flat roof	On roof	Flat roof
EKSH21P	1	1	2	2	3	3	4	4	5	5
FIXVBP	0	0	1	1	2	2	3	3	4	4
FIXMP200	1	1	2	2	3	3	4	4	5	5
FIXADP FIXADS FIXWD FIXDB	1	0	2	0	3	0	4	0	5	0
FBH26P	0	1	0	1	0	1	0	1	0	1
FEH26P	0	0	0	1	0	2	0	3	0	4
EKHWP***B	1	1	1	1	1	1	1	1	1	1
EKSRPS3B	1	1	1	1	1	1	1	1	1	1
EKRP1HBA	1	1	1	1	1	1	1	1	1	1
BSKK	1	1	1	1	1	1	1	1	1	1
FLG	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*
TS	1	1	1	1	1	1	1	1	1	1
CON15	1	1	1	1	1	1	1	1	1	1
EKSRCAP/EKSRCRP	1	0	1	0	1	0	1	0	1	0
RCFP	0	1	0	1	0	1	0	1	0	1

* : optional (recommended)

EKSV26P Drain back												
# of panels	2			3			4			5		
Material	On roof	In roof	Flat roof	On roof	In roof	Flat roof	On roof	In roof	Flat roof	On roof	In roof	Flat Roof
EKSV26P	2	2	2	3	3	3	4	4	4	5	5	5
FIXVBP	1	1	1	2	2	2	3	3	3	4	4	4
FIXMP130	2	2	2	3	3	3	4	4	4	5	5	5
FIXADP FIXADS FIXWD FIXDB	2	0	0	3	0	0	4	0	0	5	0	0
IBV26P	0	1	0	0	1	0	0	1	0	0	1	0
IEV26P	0	0	0	0	1	0	0	2	0	0	3	0
FBV26P	0	0	1	0	0	1	0	0	1	0	0	1
FEV26P	0	0	0	0	0	1	0	0	2	0	0	3
EKHWP***B	1	1	1	1	1	1	1	1	1	1	1	1
EKSRPS3B	1	1	1	1	1	1	1	1	1	1	1	1
EKRP1HBA	1	1	1	1	1	1	1	1	1	1	1	1
BSKK	1	1	1	1	1	1	1	1	1	1	1	1
FLG	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*
TS	1	1	1	1	1	1	1	1	1	1	1	1
CON15	1	1	1	1	1	1	1	1	1	1	1	1
EKSRCAP/EKSRCRP	1	0	0	1	0	0	1	0	0	1	0	0
RCIP	0	1	0	0	1	0	0	1	0	0	1	0
RCFP	0	0	1	0	0	1	0	0	1	0	0	1

* : optional (recommended)

Additional items drain back in function of installation

Material	Description	Required quantity
165070	Gravity brakes	1 set per tank heat exchanger adviced if piping from heat exchanger is not making downward bend at the tank
CONX25 CONX100 CONX50	Elongation sets	Depending on required elongation
CONXV80	Elongation pipe with couplings for inlet 8 m	Only required if rooftransit of outlet pipe collector can not be located next to outlet connection of solar collector
CONRVP	Connection pipe between solar panel rows	Number of rows - 1; Remove 1 FIXVBP per CONRVP

Pressurised combination tables

EKSV21P Pressurised							
# of panels	2		3		4		
Material	On roof	In roof	On roof	In roof	On roof	In roof	
EKSV21P	2	2	3	3	4	4	
FIXVBP	1	1	2	2	3	3	
FIXMP100	2	2	3	3	4	4	
FIXADD	6	0	10	0	12	0	standard roof tiles
FIXADP	2	0	3	0	4	0	other roof types
FIXWD							
FIXDB							
IBV21P	0	1	0	1	0	1	
IEV21P	0	0	0	1	0	2	
EKHWS / EKHWE	1	1	1	1	1	1	
EKSOLHWAV1	1	1	1	1	1	1	
EKSRDS1A	1	1	1	1	1	1	
164116	1	1	1	1	1	1	
EKSR3PA	1	1	1	1	1	1	
FLG	1*	1*	1*	1*	1*	1*	
CON15P16	1	1	1	1	0	0	
CONCP16	1	1	1	1	0	0	
CON15P20	0	0	0	0	1	1	
CONCP20	0	0	0	0	1	1	
MAGS12	1	1	0	0	0	0	
MAGS25	0	0	1	1	0	0	
MAGS35	0	0	0	0	1	1	
EKSRCP	1	1	1	1	1	1	
GFL	Depending on system volume						

* : optional (recommended)

EKSV26P Pressurised										
# of panels	1			2			3			
Material	On roof	In roof	Flat roof	On roof	In roof	Flat roof	On roof	In roof	Flat roof	
EKSV26P	1			2	2	2	3	3	3	
FIXVBP	0			1	1	1	2	2	2	
FIXMP130	1			2	2	2	3	3	3	
FIXADD	4			6			10			standard roof tiles
FIXADP	1			2	0	0	3	0	0	other roof types
FIXWD										
FIXDB										
IBV26P	0			0	1	0	0	1	0	
IEV26P	0			0	0	0	0	1	0	
FBV26P	0			0	0	1	0	0	1	
FEV26P	0			0	0	0	0	0	1	
EKHWS / EKHWE	1			1	1	1	1	1	1	
EKSOLHWAV1	1			1	1	1	1	1	1	
EKSRDS1A	1			1	1	1	1	1	1	
164116	1			1	1	1	1	1	1	
EKSR3PA	1			1	1	1	1	1	1	
FLG	1*			1*	1*	1*	1*	1*	1*	
CON15P16	1			1	1	1	1	1	1	
CONCP16	1			1	1	1	1	1	1	
MAGS12	1			1	1	1	0	0	0	
MAGS25	0			0	0	0	1	1	1	
EKSRCP	1			1	1	1	1	1	1	
GFL	Depending on system volume									

* : optional (recommended)

EKSH26P Pressurised						
# of panels	1		2		3	
Material	On roof	Flat roof	On roof	Flat roof	On roof	Flat roof
EKSH21P	1	1	2	2	3	3
FIXVBP	0	0	1	1	2	2
FIXMP200	1	1	2	2	3	3
FIXADD	4	0	6	0	10	0
FIXADP	1	0	2	0	3	0
FIXWD						
FIXDB						
FBH26P	0	1	0	1	0	1
FEH26P	0	0	0	1	0	2
EKHWS / EKHWE	1	1	1	1	1	1
EKSOLHWAV1	1	1	1	1	1	1
EKSRDS1A	1	1	1	1	1	1
164116	1	1	1	1	1	1
EKSR3PA	1	1	1	1	1	1
FLG	1*	1*	1*	1*	1*	1*
CON15P16	1	1	1	1	1	1
CONCP16	1	1	1	1	1	1
MAGS25	1	1	1	1	1	1
EKSRCP	1	1	1	1	1	1
GFL	Depending on system volume					

* : optional (recommended)

Additional items pressurised in function of installation

Material	Description	Required quantity
CONLCP	Connection pipe between solar panel rows	Number of rows - 1; Remove 1 FIXVBP per CONLCP
CONXP16	Connection between 2 CON15P16	Additional CON15P16 needed
CONXP20	Connection between 2 CON15P20	Additional CON15P20 needed

→ Notes

→ Commercial terms and conditions

I. GENERAL

Our deliveries and services are exclusively subject to the following terms and conditions of sale and delivery, even if the customer provides otherwise. The ordering party's counter-confirmations in reliance on his commercial terms and conditions or his terms and conditions of purchase apply only if they are consistent with these terms and conditions of delivery. Acceptance of the goods is in any event deemed to constitute an acknowledgment of our terms and conditions of sale and delivery. Any deviating modifications and amendments require our express consent and must be made in writing to be legally valid. Our commercial terms and conditions can be found at www.daikin-ce.com.

II. OFFER

Our offers are without engagement and non-binding. Any information about dimensions, weights, technical data, quantities and delivery times is non-binding.

III. PLACING OF AN ORDER, CHANGE OF THE DELIVERABLE

1. Orders must be placed in writing (by letter, fax or email). We are deemed to have accepted an order not until after we have confirmed in writing or actually executed that order. Any arrangement and agreement reached verbally and by phone must be confirmed in writing.
2. We reserve the right to rescind the contract even after having accepted an order if information we have obtained about the customer's liquidity in the meantime suggests that the customer will not be able to pay for the entire or for part of the order.
3. Having accepted an order, we also reserve the right to change and improve the service or deliverable, e.g. in respect of its type and design, to the extent the customer can be reasonably expected to accept such changes and improvements in consideration of our interests (e.g. delivery of an equivalent or more sophisticated device). Such changes and improvements are deemed approved in advance.
4. The customer's cancellation or change of an entire or of part of an order requires our written consent and entitles us to charge the customer - in addition to the services already provided and costs accrued - a (cancellation) fee equal to 20 % of the order value and at least € 250. For certain product groups (e.g. multiple scroll, screw chiller), separate cancellation rules apply which can be found at www.daikin-ce.com.

IV. PRICES AND TERMS OF PAYMENT

1. Prices are based on the price list, as amended from time to time, which is usually issued once a year. We reserve the right to change prices also during a year.
2. Prices are understood to be net prices without any taxes, duties or charges in the quoted currency, including packaging, ex our forwarding warehouse, unless otherwise indicated. We will not take back packaging and packing material.
3. We will not accept any objections to invoices which are received more than two weeks after receipt of an invoice. Unless otherwise indicated, invoices are due net 30 days from the invoice date; the payment date is the date on which a payment is received by us. In case of late payment, we will charge default interest at a rate of 12% p.a. In case of default, we may also demand all costs related to the collection of our claim, including, without limitation, dunning and collection charges.
4. If payment by instalments has been agreed, the maturity date will be accelerated if the customer is in default in respect of only one instalment.
5. We may make deliveries dependent on advance payment.
6. The customer may not withhold or set off payments in reliance on warranty or other claims.

V. DELIVERY TIME

1. Indicated delivery times are non-binding and reference times only, although we endeavour to meet indicated deadlines. The customer has no right to insist on compliance with a certain delivery time. As a consequence, delays in delivery will not entail any claims for damages and do not entitle the customer to rescind the contract. The same holds true if delivery deadlines are not met due to force majeure, strike or other events outside our control.
2. We will not accept penalty claims asserted by the customer under any circumstances.
3. Partial deliveries are permitted.
4. If the ordering party is in arrears on an earlier delivery, Daikin may withhold deliveries pending payment of the earlier delivery and is not required to pay to the ordering party any damages in this respect.

VI. ACCEPTANCE OF DELIVERIES, TRANSFER OF RISK, DELAYED ACCEPTANCE

1. Unless otherwise agreed, deliveries are made CIP (Incoterms 2010) to the named destination
2. In principle, delivery CIP covers only minimum transport insurance. Additional transport insurance will be purchased only if explicitly requested by customer and subject to a separate agreement and at the customer's cost and expense.
3. The customer must immediately check deliverables received by him or directly by his customers for any transport damage, and he must record any damage to the packaging or the device in the delivery note and shall refuse delivery towards the forwarding agent. If the customer finds out only later that goods are damaged, the customer shall report any such damage to us, immediately, in no case later than three working days after delivery; otherwise, any insurance claim may expire.
4. If the customer accepts goods with delay, we - notwithstanding our other rights - may charge the goods as delivered or may otherwise dispose of them without setting a time limit. If we otherwise dispose of the goods, the delivery time will recommence on the day we receive the customer's written request calling for delivery of the goods.
5. We may charge the customer for any costs incurred due to late acceptance, including, without limitation, any storage costs.

VII. RESERVATION OF TITLE

1. We will retain title to goods delivered pending full payment of all claims arising from our business relationship with the customer, even if the purchase price for specifically designated claims was paid. If our conditional goods are processed, we will acquire title to the new item without consideration. If the goods delivered by us are mixed, processed or combined with other items, the customer hereby assigns to us in proportion of the value of our invoices an ownership or co-ownership right of the combined or new item, both in respect of the interim and the final products.
2. The customer may resell goods delivered by us and the items created by processing, mixing or combining these only in the ordinary course of business. The customer hereby assigns to us any claims arising from such resale or from any other legal ground toward third parties, including, ancillary rights, in order to secure our - future - claims that may arise from our business relationship. The customer must record the assignment of these claims in his books not later than when the goods are resold.
3. Before having paid the purchase price of an item, the customer may resell that item only if he simultaneously informs the second buyer (end customer) that the resale proceeds have previously been assigned.
4. The customer may collect the assigned claims as long as he fulfils his payment obligations towards us according to the terms of the contract. The customer may not otherwise dispose of the conditional goods (e.g.: transfer of property by way of security, pledging).
5. The customer must immediately inform us of any attachment or other impairment of the conditional goods and/or the assigned claims and explain to the third party that we have retained title to those goods. Any related cost will be borne by the customer.

VIII. WARRANTY AND LIABILITY

A. Unless otherwise agreed and to the exclusion of any further claims, we are liable for any defects and the absence of warranted qualities as follows:

1. Unless otherwise indicated below, the warranty period is 36 months of the delivery date (delivery to the forwarding agent). This does not affect the applicability of Section 924 of the Austrian Civil Code.
2. The customer may assert a warranty claim only if the equipment is both installed and put into operation by Daikin or a company trained by Daikin according to the Daikin installation instructions and regularly maintained according to the Daikin service notes. Refrigerating machines featuring screw-type compressors include a 12-month warranty claim only if the machine was put into operation by Daikin itself. In case of products designated "J&E Hall International for Daikin" the customer may assert an 18-month warranty claim. For "Rotex" branded products generally a 24-month warranty period is valid except for following variations: 10 years for underfloor heating pipes and system plates, VA-piping and variosafe oil storage tanks. 5 years for solar panels, variosystem and highcube oil tanks and variocistern rainwater tanks. 3 years for HPSU heat pump solar unit and hot water storage tanks HYC, SCS and SC.
3. In a warranty event, we undertake, at our election, to replace or repair the defective goods or components. The customer may not assert other warranty or guarantee claims whatsoever. Labour cost, travel times or other costs will not be reimbursed.
4. No warranty and/or liability is accepted, unless the customer reports visible defects by giving written notice within 3 working days of delivery and other defects without delay after these have been discovered.
5. In addition to paragraphs 2 and 4, no warranty and/or liability is accepted for defects that have been caused by inadequate or improper use or treatment, failure to observe operating conditions or maintenance guideless, excessive use or inadequate operating facilities or substitute materials.
6. Unless we are granted the required time and opportunity to take all necessary warranty measures, we are released from any warranty claims and damages. If the customer continues to use defective goods, we warrant and/or are liable only for the original defect. We will not reimburse any cost of repairs which are carried out without our express prior consent. We disclaim any liability for the consequences of such repairs.
7. The warranty period for spare parts and other improvements is 6 months of delivery (delivery to the forwarding agent).
8. If a defect is remedied, the warranty period will not recommence for the replaced or repaired components.
9. We may refuse to remedy defects as long as the customer is in default with his payment obligations. The customer has no right to withhold payments, even if he gave justified notice of defects.
10. If third-party products are delivered and installed, warranty is restricted to assigning the warranty claims we may assert against the supplier of the third-party product. The customer may not assert any other warranty claims and may particularly not claim a price reduction.

B. We are liable for damage only if we demonstrably acted with intent or gross negligence. We disclaim any liability for slight negligence. We are particularly not liable for consequential damage (e.g. idle times due to wrong deliveries) and financial loss, lost profit, unachieved savings, loss of interest and any damage suffered from third-party claims against the customer, unless the foregoing is attributable to our intent or gross negligence. If damage is attributable to the defective condition of goods delivered by us, we are liable only to the extent the producer or upstream supplier is liable to us. Our liability does in any case not exceed the invoice value of the incriminated goods.

IX. RETURNED GOODS

1. Goods can be returned and exchanged only upon our express and written consent. We accept returned goods only with a minimum net value of € 100 and a maximum net value of € 50.000 per return item quantity and only provided that those goods are not damaged, have not been used, are in original packaging and are fit for resale. In particular, returns of already installed units (including chillers) and returns of any made to order units as well as spare parts are not permitted.
2. The customer shall complete the "Request for Goods Return"-form (available at the DENV Extranet, http:¥¥extranet.daikineurope.com) and send it to us to the fax number or email address provided by us within 10 calendar days after delivery, otherwise we will not accept the return.
3. Goods must be returned freight paid at the risk of customer to the destination indicated by us.
4. In every case of a return, a maximum of 80% of the net price charged by us to the customer will be credited. All standard returns will be subject to a restocking / administration charge of 20 % of the net price.
5. All returns will be inspected by us. If goods are returned wrongly (i.e. not in compliance with paragraph 1. above), we may refuse the returns and have them returned back to the customer at the customer's risk and costs. Alternatively, we may charge a higher restocking / administration fee than the above mentioned 20%.
6. Any credit notes whatsoever will exclusively be set off against future deliveries.

X. PLACE OF JURISDICTION, APPLICABLE LAW

1. All disputes arising from or in connection with this Agreement shall be exclusively referred to the courts in Vienna.
2. All contracts concluded by us and all disputes arising in connection with those contracts shall be governed by and construed in accordance with Austrian law without giving effect to its conflict of law rules and the UN Sales Convention.

XI. SEVERABILITY

Should any term of these commercial terms and conditions or of the contract concluded between us and the customer be invalid or ineffective, this shall not affect the remaining terms hereof or thereof. Invalid terms shall be replaced by lawful terms which closest reflect the parties' intent.

The Daikin Commercial Terms & Conditions are also available at www.daikin-ce.com

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